

AWIPS OB8.1: FINAL Release Notes

Section III – Current Problems to be Fixed in a Future Release

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Problem. POES and GOES sounding data are stored twice at some sites. (DR 12542) 5-99

Problem: The CommsRouter COMMS_ROUTER logs an error upon startup. (DR 13516)..... 5-99

Problem. Two StdDBDecoders possible due to Partial Write. (DR 14897)..... 5-99

Problem. Two DataControllers possible due to Partial Writes. (DR 14898)..... 5-99

Problem. Requests are not queued when the MhsRequestServer is down. (DR 3820)..... 5-100

Problem. MHS - error deleting nack file. (DR 4090)..... 5-100

Problem. WAN OTRs can cause status log of receiving ORPG to fill. (DR 14450).. 5-100

Problem. Alaska hydrology data is not ingested. (DR 4534) 5-100

Problem. Localization errors occur on the OCONUS system. (DR 9527)..... 5-100

Problem: The /awips.install/host_config_file is incorrect for the GUM CPs. (DR 12792)..... 5-100

Problem. The lvd_sat_ingest script looks for westCONUS data. (DR 11214)..... 5-101

Problem. State/County Boundaries Legend appears twice at Alaska sites. (DR 4524)..... 5-101

Problem. Longitude is not available far enough to the west in Product Maker. (DR 2537)..... 5-101

Problem. Cannot load satellite images from Product Maker for Guam. (DR 4459)... 5-101

Problem. The GOES Sounder Imagery CONUS sectors should be removed from OCONUS sites. (DR 13545)..... 5-101

Problem. Volume Browser has RUC40 listed in the source. (DR 6436) 5-102

Problem. ESPVS Data Generation does not work with CPCoutlook data. (DR 14733)..... 5-102

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Problem. Listed software version needs to be updated for GFE pre-release. (DR 19190)

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. This problem may be related to DR 18789.

Workaround. Change the purge method specified in nationalData/purgeInfo.txt from

```
999765| LDAD/mdl_data | ,,i | | 20
```

to

```
999765| LDAD/mdl_data | | 2- | 20
```

Problem. WarnGen: Flash Flood Warning follow-ups disappear. (DR 19177)

Generate and issue at least 3 and preferably 7 flash flood warnings and see that corresponding flash flood statements disappear from the warnGen followup action list.

Problem. routerStoreNetcdf memory leak. (DR 19175)

Every 8 to 10 days that ldad data stops flowing. Need to bounce the ldad processes at that time.

The problem appears to be a memory leak. In any case, the memory usage of routerStoreNetCDF increases to more than 1GB which prevents it from running a child process to perform some file operations.

Workaround. Restart LDAD ingest. (It should be possible to just kill routerStoreNetcdf and let it restart automatically.)

Problem. nwrWatchDog.sh prevents nwrTrans.pl from running on dx2. (DR 19158)

When the dx1apps package fails over to dx2, the logic in the nwrWatchDog.sh script (which is kicked off via dx1cron every minute) kills the process on dx2 every time.

Impact of this is flaky, at best, automatic transmissions of NWR products. Site DMX experienced that no products would be automatically transmitted while dx1apps was on dx2.

Problem. WarnGen: Flood Advisory type incorrectly changed for followup. (DR 19150)

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 follow-up. 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 follow-up statements, so there is no workaround.

If other options are chosen, urban and ss, arroyo and ss or hydrologic, the follow-up works correctly. This only impacts a ss flood advisory. **(Discovered on OB8.1, Target Release: OB8.2, Approved Baseline Release: OB8.2)**

Problem. Error in watchDogExternal.sh. (DR 19098)

The watchDogExternal.sh created huge log saying no such file or directory for /opt/java/bin

Problem. RadarMsgHandler crashes. (DR 19063)

The RadarMsgHandler fails on a priority 1 - RDA and base data unavailable alert from fxaAnnounce to signal a pop-up for Guardian.

This is a serious problem. If RadarMsgHandler is not running, D-2D/Guardian does not receive any information about the status of the RDA/RPG.

Analysis revealed a coding error in the AWIPS Common event dispatching code. The fix is already known.

Note: The changes made in DR OB8.1 19027 make this problem *more* likely to occur. It is important that this DR be included in OB8.1

Problem. RadarMsgHandler may not announce urgent radar conditions. (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.

Problem. WarnGen adds too many extra vertices when you redraw from "hatched area" box. (DR 18963)

WarnGen adds too many extraneous vertices when you select the redraw from "hatched area" box:

1. Issue a warning – preferably a square county (without the polygon touching the county lines).
2. Select a followup SVS.
3. Move one vertex and then select redraw from Hatched Area box and several vertices will be added to the polygon.

* This is the first iteration of Warning by Polygon, and GSD will continue to refine the algorithm in future releases as the functionality is exercised more by the users.

* The Regional Focal Points agreed to defer this issue to the SREC as small enhancement for the next release.

This DR is a reincarnation of the canceled DRs 18548 and 18562.

Problem. WarnGen Flood Advisory Hydro-VTEC is incorrect. (OB8.1 DR 18885) (DR 18912)

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." **(Discovered on OB8.1, Target Release: OB8.2, Approved Baseline Release: OB8.2)**

Problem. DS decommissioning should remove CPU monitoring for DS. (DR 18904)

DS has been decommissioned from OB8.1. However, AWIPS System Monitor still shows both servers on CPU history display. Instead, they should be removed from the display.

Problem. WG: Warned for cities outside the CWA (Ref. OB8.1 DR 18776). (DR 18902)

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. **(Discovered on OB8.1, Target Release: OB8.2, Approved Baseline Release: OB8.2)**

Problem. Remove lamp account. (Ref. OB8.1 DR 18811). (DR 18888)

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. **(Discovered on OB8.1, Target Release: OB8.2, Approved Baseline Release: OB8.2)**

Problem. GW: D2D not displaying all warnings by type. (Ref OB8.1 DR 18855) (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. **(Discovered on OB8.1, Target Release: OB8.2, Approved Baseline Release: OB8.2)**

Problem. New LDAD Is2 request for Sutron gauge data not processed. (DR 18865)

After submitting a request for Sutron gauge data, the Sutron gauge was not logged in /data/ldad/Processed or /data/logs/ldad/yyyymmdd.

Problem. New LDAD Is2 request for Handar gauge data not Processed. (DR 18864)

After submitting a request for HANDAR gauge data, the HANDAR gauge was not logged in /data/ldad/Processed or /data/logs/ldad/yyyymmdd.

Problem. New LDAD ls2 var/opt/hylafax/log not created. (DR 18863)

After sending a fax the /var/opt/hylafax/log was not created on ls2.

Problem. New LDAD ls2 FaxCapability Permission Denied. (DR 18861)

New LDAD. From the text workstation. Fax All or Fax selection. Selection the Send button. The following message displays:

```
/data/ldad/public/fax/SFOZFPSTO2007033144361.data: Permission Denied
```

...also fax did not send successfully.

Problem. New LDAD can't collect and disseminate file to/from its server via FTP protocol. (DR 18860)

The new LDAD cannot collect and disseminate files to/from its server via a stand-alone PC using the FTP protocol.

Problem. New LDAD: Mesonet Analysis not correctly sorting observations. (DR 18859)

In OB8.1, the mesonet data received through the new LDAD is being stored in the wrong hour's netcdf file. The new LDAD decoders are not working correctly. When mesonet data comes in, 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.

Problem. New LDAD: The ingested IFLOWS and ALERT data are not displayed. (DR 18858)

From the Obs menu of the D2D (map scale is Regional), select 1 hr precip (or 3 hr precip) from the Local Data precip plots submenu, the ingested IFLOWS and ALERT data are not displayed.

Problem. New LDAD can not retrieve LARC data through LDAD server. (DR 18852)

While the LARC gauge is called using the LARC database information such as name, phone number, and communication protocols, the LARC data are not retrieved from the gauge. No status report information is displayed on the new request monitor.

Problem. New LDAD can not retrieve Campbell data through its server. (DR 18851)

While the Campbell gauge is called using its database information such as name, phone number, and communication protocols, the Campbell data are not retrieved from the gauge. No status report information is displayed on the new request monitor.

Supplemental Medium-Range - Live data are not available for testing. (DR 18808) [HELD]

Testing has been completed on DCS 3377 (Improved Medium Range Model Guidance) with test data provided by Melissa Porricelli. Live data are required to complete testing.

Problem. GW: Canceled warnings are not removed from the D2D warning display. (DR 18793)

I found that warnings are not removed from the display after they are canceled in OB8.1. I confirmed that this is a new problem after OB7.2 testing. The warnings are eventually removed from the display at a later time. That time may correspond with the original expiration time. I have attached a screen capture. All the local and regional flood warning (forest green) I have canceled. Since their cancellations, I have issued other products. When canceling the same product in OB7.2, the warning graphic disappears.

In addition, I have observed that expired or canceled warnings reappear after being removed from the display. -CWL 20-MAR-2007

Problem. WG: Warned/Hatched Area button will create different polygons with each click. (DR 18769) [HELD]

When a initial polygon is created, especially along some boundary, such as a CWA or shore, each click of the "Warned/Hatched Area" button on WarnGen will create a slightly different polygon. At a certain point these changes will cease, usually by the second, third, or fourth iteration. I believe the issue described in this DR is similar to DR 18768.

Problem. ECMWF-HiRes and HPC QPF grids not monitored by Data Monitor. (DR 18712) [HELD]

ECMWF-HiRes and HPCqpfNDFD grids were introduced into AWIPS in OB8.1 for DCS3377 and DCS3380, respectively. Data Monitoring was not addressed as a requirement for these grids, but conventionally new grids are added to the Data Monitor web page. Therefore it would likely be useful if these appeared there as well.

Problem. Incorrect Time Zone in Alaska Region. (DR 18570)

From VRH: The time zone is set at AST and should be AKST or AKDT depending on whether it is standard time or daylight time. (Discovered on OB8.1, Approved Baseline Release: OB8.2)

Problem. VHW site wants NAM Buffer data. (DR 18568)

NAM Buffer sounding data and NCEP produces 60 that are not in AWIPS and they would like to add this to awips. (Discovered on OB8.1, Approved Baseline Release: OB8.2)

Problem. WarnGen: remove partial backup button. (DR 18551)

Under DR16657, the Partial backup button in WarnGen was changed to read "Dambreak Partial." This, in fact, is a misleading change that was deemed expedient for OB7.2. Partial backup is not supposed to be used any more, but a dambreak flood warning is allowed to extend into an adjacent CWA in some cases. However, there is no need to select Partial backup to accomplish this (indeed, one should not) - a change in the template allows WarnGen to access the necessary "partial backup" data structures. To eliminate the confusion that this Dambreak

Partial (or indeed the former simply Partial) name may engender, Partial backup should be eliminated from WarnGen.

Problem. Software installation scripts. (DR 18546)

General DR to handle changes to the OB8.1 software installation scripts.

Problem. OB8.1 Missing directories and files. (DR 18528)

When testing LDAD the following errors were discovered:

Software Problems:

1. Check_out_4.5.4_MesonetQC: On the D2D page in Obs>Local Data>30 min stn plot and Obs>Local Data>Other Plots 15 min stn plots both are grayed out".
2. Check_Out_Database: When I typed "psql -U pguser fxatext" at the command line the following error message is displayed "FATAL: database "FXAText" does not exist".
3. Check_Out_LDADMonitorWebServer: Search the entire cpsbn1 server and the acq-stats script does not exist.

When running unix scripts some of the files and directories were missing. Also some links are grayed out.

Problem. HydroView/MPE color management too restrictive. (DR 18445)

HydroView and MPE_editor use a common approach for managing the colors associated with displays of certain weather elements, such as precip values. While this operation works, it is overly difficult to manage. **(Discovered on OB8.1, Target Release:8.2, Approved Baseline Release: 8.2)**

Problem. LWD: The combined FFW/SVR warning only plots as FFW on the display (DR 18433)

The combined flash flood and svr warning only shows up as an FFW on the local warning display. The display should plot both the FFW and the SVR. Otherwise the forecaster may not realize they have a svr in effect.

Jim Ramer comments: This is not achievable at all in the current design until Hydro VTEC is turned on. Even then it will be difficult. If this is a show stopper, then 8.1 will HAVE to be delayed.

Problem. DE: Add WMO header patterns to acquisition files for ECMWF. (DR 18322)

The WMO headers for the ECMWF HiRes grids were undetermined at the check-in deadline for DCS 3377. Therefore, once the headers are provided by NCEP, acq_patterns.txt, acq_patterns.txt.OCONUS, acq_categories.txt and Grib2Patterns.txt may need to be updated.

Problem. DE: Add keys to gridPurgeInfo.txt for ECMWF and HPC. (DR 18321)

Because of how the purging functionality is designed, the key representing a given grid must be added to gridPurgeInfo.txt. In order to determine the correct key, one must be using a clean installation/localization. Therefore it was not possible to add the purge keys prior to the NHDA OB8.1 upgrade. This applies to ECMWF HiRes and HPC QPF grids which were implemented in DCS's 3377 and 3380, respectively.

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Problem: Guardian and forced settings (Ref: DR_18729). (DR 19184)

Forecasters in the field have pointed out that Guardian does not allow for a forced sound file to be played. This was as designed, but the field states very clearly they want/need this sort of functionality.

Problem: Radar products can be lost without any alarm. (DR 19180)

Several previous DRs have modified the way in which RadarMsgHandler presents alert messages to users via Guardian (or the old Announcer). The problems involve balancing timely notification of serious radar problems and avoidance of too many false alarms. It may be possible to find a good balance, but there is still a fundamental problem: AWIPS relies on the RPG to send the initial failure notifications. If these notifications are not sent, there will never be any user-visible alarms. When this happens, it may take too long for forecasters to realize the radar products are not updating.

An alternate approach to the problem is to add "watchdog" functionality to the AWIPS radar ingest system. Rather than wait for an active notification from the RPG, the absence of new data within a given time period would be the trigger for an alarm.

Problem: Reprioritize RadarMsgHandler messages sent to GUARDIAN (Ref. DR 18767). (DR 19179)

This DR is opened to reassess the alarming system built into RadarMsgHandler in conjunction with GUARDIAN.

Sites report that certain reported RDA events, which currently are coded to send priority 4, or 2, messages should be sent as priority 1. Sites have reported upwards of 15+ minutes to be notified by a pop-up that the RDA is down. This could impact operations during a severe weather event.

See below for suggestions from Matt Foster/OUN

We feel that as soon as this message was seen:

RDA Avail = Unavailable

That a priority 1 alarm should have been triggered. This probably corresponds to a message from the RDA like "RDA STATUS: Stat=Standby" or Oper=Inoperable. I don't know exactly what sorts of messages they get from the radar. I can see what's in the radar's log, but I don't know if that's exactly what AWIPS sees.

I've been advised by someone with much more 88D experience than me that the "Base Data =" entry should NOT be relied upon for anything. When that message says, "Base Data = Reflectivity Velocity Spectrum Width" (which may be something like 'Data=All' from the radar), it only means that the three base moments are enabled. It does not necessarily mean that they are flowing normally. There is an example of exactly this in this KFDR case. There is a point in the logs, after the initial failure at 0432Z, where the message, "Base Data = Reflectivity Velocity Spectrum Width", can be seen. This occurred when the staff here at the WFO tried to

restart the RDA. The RDA software was in Startup, and generated that message, even though the radar was NOT actually collecting data yet.

Also, we were a bit troubled by the fact that this message...

RDA Avail = Available Maintenance Mandatory

Only rated a priority 4 message. Maintenance Mandatory should trigger priority 2, in our opinion.

Problem: DE: GFS BUFR MOS: Replace Sky Cover variables. (DR 19166)

Requested from GFS MOS data provider Becky Cosgrove in TT 294960:

We send GFS-based MOS BUFR products with WMO headers JSML30-38 KWNO. These products are also decoded by the BUFR decoder and put into netCDF. The netCDF is used to create at least the MOS depictables. We currently send total sky cover guidance with the following BUFR ids (the 3 columns in the beginning of the line are the BUFR id):

0 60 100 PoTSKYC 0/8 %

0 60 108 PoTSKYC 1/8-2/8 %

0 60 109 PoTSKYC 3/8-4/8 %

0 60 103 PoTSKYC 5/8-7/8 %

0 60 104 PoTSKYC 8/8 %

0 20 11 Sky Cover CAT

it is mapped into something in the netCDF.

We are replacing this guidance with opaque sky cover with the following

BUFR ids:

0 60 181 GFSMOS PoOSKYC CLR

0 60 182 GFSMOS PoOSKYC FEW

0 60 183 GFSMOS PoOSKYC SCT

0 60 184 GFSMOS PoOSKYC BKN

0 60 186 GFSMOS PoOSKYC OVR

0 60 192 GFSMOS OSKYC CAT

The current BUFR table B for these products does not contain these BUFR identifiers. We would like the table B to be updated, and the opaque sky cover guidance "put" in the netCDF files where the total sky cover is currently stored. Then that opaque sky cover would replace the total in any applications that are reading the netCDF files. We would then stop putting the total sky cover guidance in the BUFR products.

Problem: Small enhancement: GFE text formatter change from eastern region. (DR 19162)

The Eastern Region Text Formatter Task Force would like to initiate a Small Enhancement Process regarding GFE formatters which will better assist our regional team in providing GFE text formatter support.

The routine product formatters in GFE all use the baseline-regional-site architecture for product overrides. This is very useful for the regional team to use when certain overrides pertain to all the offices in our region. The problem, however, is that the hazard formatters still rely on the baseline-local method of inheritance. This causes difficulties when regional overrides need to be created, as has occurred with our regional HWO and HLS formatters. In these instances, we need to recreate the entire hierarchy of Text Product and Text Utility files in order to put a regional overrides file in place.

Our request for the Small Enhancement Process is that all text formatters follow the baseline-regional-site convention for Text Product and Text Utility files. If you have any questions about this request, you can reach me in operations at WFO GSP at (864)848-1332, or my voice mail at (864) 848-9970 (x404), or respond to this e-mail address.

Problem: Small enhancement: stop sending MOS products that have been superseded. (DR 19154)

This is a request from Becky Cosgrove at MDL. We determined that it could go through the small enhancement process:

We send GFS-based MOS guidance for 1 to 7 days out in BUFR format. The headers for these products are JSMT60 through JSMT79 KWNO. I know that they are decoded by the BUFR decoder and put into netCDF. I want to stop sending these products because they have been replaced by updated products. I do not know what, if any, applications use this data now that mexwx is gone. So I would like to know if any applications are still using this product.

Problem: Mesonet Analysis not correctly sorting observations (Ref. OB8.1 DR 18766). (DR 19124)

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 which ever 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.

Tim Barker, the SOO at BOI who originally reported this problem, said that this is a very important problem with huge repercussions and would like this to have the highest priority

possible. This is serious because many wrong observations are being placed into a given hours mesonet analysis. The mesonet analysis is a very important part of severe weather forecasting.

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.

Problem: AF: msg_stats not displaying data volumes correctly (DR 19111)

Desired release is OB8.3.

msg_stats is a command line utility invoked mostly by the NCF to troubleshoot problems with MHS.

No trouble ticket as this was noticed by the developers, not by the field or the NCF.

There is no impact to the forecasters or the end users since they generally do not use this utility. The impact is that the missing information can make troubleshooting MHS problems more difficult and time consuming.

Workaround. None.

Problem: SAFESEAS: Anchor button stuck on Red (Ref. OB8.1.1 DR 18996). (DR 19109)

The Juneau WFO has reported (TT 265700) a constant red color for their SAFESEAS anchor button (formerly on the D-2D pane, now in Guardian). This behavior makes the button unreliable as an alert tool, because forecasters cannot tell whether the button color properly reflects selected SAFESEAS thresholds for wind speed, wave height, and other parameters. Some workarounds, assuming various possible explanations for this behavior, have been tried unsuccessfully over the last few months. The root cause has just been diagnosed as a faulty initialization of certain mesonet parameters -- they proceed through the code with erroneously high values. This behavior could potentially affect the SNOW button as well, since it uses the same code. This DR is listed as "critical" because there is no workaround.

Problem: In monthly climate report (CLM) Number of days max > 90 is incorrect. (DR 19108)

In the monthly climate report (CLM), the normals for the number of days with max temp ≥ 90 , number of days with max temp ≤ 32 , number of days with min temp ≤ 32 , and number of days with mintemp ≤ 0 are incorrect. The product displays the number of days that the normal temp meets the criteria, not the average number of days the criteria is met.

Example: In July in Amarillo, instead of showing 19.9 days on average with a max temp ≥ 90 , the product shows 31 days, because the normal is above 90 for all 31 days of the month.

I looked in Amarillo's climate database, and the correct values are in there, so there may have been a software change at some point that caused the wrong values to be grabbed.

The values that should be displayed in the database from the table mon_climate_norm are num_max_ge_90f, num_max_le_32f, num_min_le_32f, and num_min_le_0f.

Workaround. Manually edit the monthly climate products. The operational impact is the time required for manually editing.

Problem: Bug in monthly climate report (CLM) with last year's max 24hr precip. (DR 19107)

Mike D'Angelo at State College PA reported the following problem with the monthly climate product (CLM). He says that he has talked to other offices and they have experienced the same problem.

The problem occurs only when the site decides to include last year's monthly max 24-hour precip. in the report, and only for NWS.

The report should say something like 1.85 03/02 TO 03/02. Instead, it omits the 1.85 and says 03/02 TO 03/02 three times on successive lines and sometimes puts in garbage characters as well (see attached report). Occasionally the dates are wrong also.

Workaround. Manually edit out the bad data. The operational impact is the added time required for manual editing.

Problem: GFE: No Time Descriptors with Heat Index/Wind Chill. (DR 19104)

When using the mostImportant phrase method, in some cases, no timer phrases are returned when there should be.

For example: using WindChill values/settings of...

-14 for hours 0-3

-9 for hours 3-6

-4 for hours 6-9

± 0 for hours 9-12

[3] for a WindChill resolution

maximum_range_nValue and minimum_range_nValue both equal 0

Max and Min range biases are set to "Min"

scalar difference is set to 2

Null value is baseline: -100

MostImportant is set to "Min"

THE RETURNED PHRASE IS...

LOWEST WIND CHILL READINGS OF 14 BELOW ZERO.

AND SHOULD BE...

LOWEST WIND CHILL VALUES OF 14 BELOW ZERO EARLY IN THE MORNING.

The problem appeared to result from the consolidateTrends method.

Workaround. Local overrides.

Problem: Cannot load kdax xsect 3-bit refl (dbz). (DR 19097)

While executing a crawl menus automated script on TBDR, D2D regional scale, the following error message was received.

Cannot load kdax xsect 3-bit refl (dbz) Depictor file: kdax radar xsect is not valid.

This message also applied to kcri, kryx, kmux, and kntx radars

Problem: ETNs for TS and HU not being maintained in the CWF. (DR 19096)

CHS and JAX discovered upon preparing for TS Barry that their ETNs were not incrementing to 0002 as they should. I have created TS and HU products on nmtw and can get the ETN to increment as the previous product is recent.

My theory is code exists which purges TS and HU hazards from the VTEC AT after 14 days. This does not impact the TPC-issued coastal zone hazards as they assign their own ETN. But it does negatively impact the WFO as the ETN is pulled from the AT. AFAIK, there is no workaround.

This may be able to be tested prior to 6/14 if a test bed is used to issue a TS or HU hazard via the CWF then push the system clock forward 15 days.

Problem: GFSLAMP ingest directory not set up for purging. (DR 19083)

Site PTR, which is an RFC, reported that since the OB7.2 upgrade their directory /data/fxa/ispan/bufr/GFSLAMP has been filling up with data files. Other directories under /data/fxa/ispan/bufr are set up in purgeInfo.txt so that only 100 files are kept. For RFC's, the fact that /data/fxa/ispan/bufr/GFSLAMP is not purged is a particular problem because RFC's do not run the BufrMosDecoder, which would read and then remove the data from this directory.

Workaround. Change acq_patterns.txt, commenting out the line for /ispan/bufr/GFSLAMP so that the product will not be ingested, since RFC's neither decode nor use this data.

Problem: VTEC ETN mis-match between WarnGen and Text Workstation QC program. (DR 19081)

There is suspected mis-match between WarnGen and the Text Workstation (Text WarnGen Window) QC program over the number of products examined in the text database. When this occurs, the following QC error occurs [See Attachment 1 for a screen shot from WFO SGF] "The value of your ETN, 0008, is much higher than the highest ETN in the text database.

The SST has examined the text database using the following command [textdb -r ALL:STLFLSSGF | grep ^/X'] and found the following: [See Attachment 2]

Note: The text database does have products stored FA.Y using ETNs 0001 - 0007 before the site rain into this problem.

Shannon White had indicated that she had seen this problem in previous VTEC testing.

A WarnGen archive was created for this problem 5/30/ 2007 and stored in /data/fxa/wgnTT.20070530_1236.

Problem: XSETS "make forecast" Results Causing Confusion. (DR 19078)

Over the past few weeks, minor to record flooding has occurred in the Missouri Basin. During that time, the RFC forecast generation program XSETS was not able to correctly identify the river crests in the forecast time series. This problem caused considerable delays in the issuance of RFC and consequently WFO products. This was due to the fact that each forecast product had to be carefully reviewed and manually edited to ensure that the crest statement was accurate. Here are the four basic types of problems connected with the .A crest line that occurred, although there were many variations on some of these that occurred.

1. no .A crest line generated when there definitely should have been one.
2. has a .A crest line but it is not the crest.
3. multiple .A crest lines ... some of these crest lines were outside the time constants of the forecast time series contained in the RFC product.
4. has a .A crest line when the forecast time series clearly indicates it is falling.

Problem: Flood Time Series Report doesn't consider locations which report flow. (DR 19071)

One of the utility programs in the hydro software is a program--called floodseq--which analyzes observed river data and compares observations to flood stage. Observed values which are greater than flood stage are copied to a separate table in the hydro database to create flood time series. These flood time series are then used by the Service Hydrologist and Hydro Focal Point to construct required monthly reports on hydrologic conditions in the HSA.

Currently, the floodseq utility program only considers locations which report observed river values whose SHEF Physical Element begins with H (e.g. HG - river stage, HP - pool elevation).

Locations which report discharge or flow--which are reported with a SHEF Physical Element which begins with Q--are not evaluated by the floodseq utility program. As a result, flood time series are not created for these discharge locations, and Service Hydrologists and Hydrologic Focal Points are unable to fully report on flooding events in their HSA.

Problem: Error message about buoys unnecessarily pops up in LSR for inland sites. (DR 19069)

When MAF opens their local storm report (LSR) application, they get a message: "Alert. Could not get the buoy list using the Buoy/CMAN location." We have determined that it's because they don't have the file

/awips/fxa/data/localizationDataSets/FWD/wwa_marine.gelt.

We tried removing the file at NHDA as site LWX (a coastal site), and then got the same error message.

It seems that sites with a coastline should need this file, but apparently LSR checks all sites for it.

We checked with Qinglu Lin who has experience with localizations. He looked for us, and determined that the localization scripts do not install that file for non-coastal sites. It does give the file to coastal sites. Most of the non-coastal sites may be getting this message.

We checked at FWD, they do not have the file and are getting the message.

The bug fix would be to change LSR so that it does not check for the `wwa_marine.gelt` file for non-coastal sites.

The operational impact is that an error message displays every time the LSR application is started. This has no impact on using LSR or creating storm reports.

Workaround. None.

Problem: Small enhancement request - add options in climate for NWR. (DR 19067)

Note the Site Description, "PORTLAND WFO", is incorrect. That was the only option available in Dimensions when I selected "GYX" as the Site/Location. It should be GRAY WFO (Gray ME).

In climate the climate main GUI under 'Setup/Edit Climate Products', if any of the products (any of the daily ones, the monthly, seasonal, annual) is selected, for NWR, some of the choices are grayed out. Those same choices are not grayed out when NWWS is selected.

It would be helpful to allow the user to select those choices that are grayed out, in case for the WFO would like them played on NWR (Tom Berman at GYX would like last year's heating and cooling degree days on the NWR).

The choices that are grayed out are:

Under Temperature, Last Year's Maximum, Last Year's Minimum, Last Year's Mean.

Under Precipitation, Last Year's.

Under Snowfall, Last Year's.

Under Degree Days, Last Year's Normal Heating Degree Days, Last Year's Heating Degree Days, Last Year's Normal Cooling Degree Days, Last Year's Cooling Degree Days.

Problem: NWR WAVES: Incorrectly issues red banner TEST message. (DR 19057)

As reported by Brian Walawender of CR HQ: The check for TEST wording or T VTEC coding occurs before the processing of listening area codes. So it is possible to get an FXA Red Banner message stating something similar to "TEST WORDING DETECTED IN STLWOU4...SENDING TO PENDING" even though the product has none of the sites' counties/zones in it.

This bug will impact all WFO's. The good news is that no messages are generated unless the product contains counties or zones in your listening area. The FXA red banner message can be safely ignored.

Problem: GFE grid editing problem. (DR 19055)

Bob Stauber at PHI reported a grid editing problem with GFE. He said it has occurred several times off and on over the last few months, but they haven't called NCF about it until now.

The problem is that they have GFE open on both lx3 and lx4. The forecaster on lx4 had their marine group open while on lx3 the public group was open.

The forecaster on lx3 populated his winds, and this caused the MaxT grids on lx4 to change. The forecaster on lx4 went into Break Locks and saw ownership of Max T by the forecaster on lx3. The forecaster on lx4 had to break the locks to clear the ownership.

Operational Impact. This is a major annoyance, and if the forecasters do not notice that grids have been changed, it could result in a forecast going out that's not as the forecasters thought it was.

Workaround. After it has occurred, break the locks and redo grids back to the way they were before they were changed.

Problem: GFE: FWF has repeating 24hr trend lines and jumbled phrases. (DR 19046)

First issue from TT 289099 from PDT:

Our land management season (PDT) began last week, and immediately we noticed some strange behavior with the RH trends. We are currently using the LM formatter which is just a derivation of the FWF formatter. First, we occasionally see this problem:

.TONIGHT...

SKY/WEATHER.....PARTLY CLOUDY.

MIN TEMPERATURE.....21-26.

24 HR TREND.....6 DEGREES DOWN.

24 HR TREND.....

24 HR TREND.....

24 HR TREND.....

24 HR TREND.....LITTLE CHANGE.

MAX HUMIDITY.....88-93 PERCENT.

HUMIDITY RECOVERY.....EXCELLENT.

Note the repeating 24 HOUR TREND lines. There should ONLY be two 24 HOUR TREND lines mentioned per period (i.e. one line for Temperature trends and one line for HUMIDITY trends).

The problem was traced to the consolidation of local effect phrases.

Workaround. Local overrides.

Problem: Batch Version of Riverpro fails when missing product content files. (DR 19035)

In its initial implementations, Riverpro used to require the existence of 4 product content control files in the /awips/hydroapps/whfs/local/data/app/riverpro directory: flw_def.pcc.CCC, fls_def.pcc.CCC, flt_def.pcc.CCC, and rvs_def.pcc.CCC, where CCC is the site's 3 character id. If any of these four files were missing, the application would fail to launch. Over time, the flt_def.pcc.CCC file has become obsolete, and the graphical version of the application has been modified to not crash if any of the remaining three files does not exist.

Many offices use the batch version of the application to create routine data products. These products are created and issued as part of a local cron definition and do not require any user interaction. However, the batch version of the application still requires the existence of all three files. If any one of them does not exist, then the batch version of the application will fail to function. The batch version of the application should be modified to behave as the graphical version does.

Problem: Small Enhancement: Add ability for user to easily define VTEC Times in Riverpro. (DR 19034)

The Riverpro application derives the times which appear in the P-VTEC and H-VTEC lines of a product by analyzing observed and forecast river data to determine when the river rises above flood stage, crests, and falls below flood stage. Users would like the ability to have the option to change one or more of these times via a graphical user interface. Specifically:

Within Riverpro, the user will have the option to select individual forecast points and display a time series of observed and forecast data for those locations, as well as a graphical user interface which allows the user to manually define any one of the 5 VTEC times: 1) P-VTEC Event Begin Time, 2) P-VTEC Event End Time, 3) H-VTEC Rise Above Flood Stage Time, 4) H-VTEC Flood Crest Time, and 5) H-VTEC Fall Below Flood Stage Time. When the user manually defines any of the VTEC times via this interface, the Riverpro product creation software will implement these times in the VTEC coding of the product in place of the recommended times analytically derived by the application. Upon product issuance, these user-defined times will be written to the database as the appropriate VTEC times for that location

Problem: Small Enhancement: Add information to hydro database on observation frequencies. (DR 19033)

The hydro database and the HydroBase application need to be modified to be able to store information regarding how frequently observed data is reported. Specifically:

1. Add the ability to define the observation frequency of observed data elements to the IHFS database. This capability needs to take into account those observed data element which are reported by a user on an infrequent (e.g. event-based) basis.
2. Add the ability to identify if the location receives random reports in addition to the defined observation frequency.
3. Provide the user the ability to manage observation frequency information via the Hydrobase application.

Problem: Small enhancement: update textws to maintain proper indentation in warnings. (DR 19032)

Warnings have an indention throughout due to the bulleted format. But when the automatically generated text is edited, sites lose the formatting. The warning forecaster then spends time reformatting so as not to cause any possible dissemination issues. This cuts into a warning' lead time.

A text workstation enhancement is requested so that short-duration warnings are auto indented when they contain bulleted paragraphs. A local app exists which does this, but that functionality is needed in the baseline. The app is called textws_enhancement and a 7.2 package exists. The only documentation is from an older version and can be found at http://140.90.90.253/~applications/LAD/data/1462/PJ_textOptions.README.

Problem: WarnGen: County dropped from first bullet of warning. (DR 19031)

County names were dropped from the body of an areal flood warning. These counties coincided with duplicate county names between states. Upon generating the product, WarnGen alerts the user to the fact that there's a miscount between the number of UGC codes in the product

(correct) and the number of counties listed in the first bullet.

The source of our problem originates from the template section below, which creates the first bullet output:

```
<AREA |file=wwa_counties |format=simple |group_by=[table]
|used=begin |unique_by=[1] [53] [0,table]
|item_format=
~~[county_area_state][~799,...][799,...]&[599,~~THIS INCLUDES THE CIT]
@@@COPE
|accumulate |cross=wwa_counties |sort_by=[52] [51] [50,table] [0,size]
```

```
|file=wwa_warn_city @@@CIPE
|include_field=2 |include_text=1
|exclude_field=2 |exclude_text=0
|item_format=[1199,Y OF~][2199,IES OF...][1][[-799,...][799,...&] >
```

Most WFOs have trimmed back this section to look like the following:

```
<AREA |file=wwa_counties |format=simple |group_by=[table] |sort_by=[1]
|used=begin |unique_by=[1] [53] [0,table] |portions |extreme=no
|accumulate |item_format=~~[county_area_state]&>&
```

Note the |unique_by=[1] [53] [0,table] piece of code. The wwa_counties.id file is a pipe delimited file which contains the county information used in WarnGen. The first field is the county, the second is the state and the third is the UGC code. |unique_by = [1] tells WarnGen that all output must first be unique by the 1st field -- or the county name. This is where the error occurs, because the duplicate county names are no longer unique.

The same potential problem exists in the national templates for:

Tornado Warning, Severe Thunderstorm warning, Flash Flood Warning, Dam Break FFW and Areal Flood Warning.

Problem: Guardian: shotgun popup messages (log too big). (DR 19015)

Something is sending thousands of pop-up messages to Guardian. It was suggested that that source of the messages be fixed, but that does not seem to be happening, so guardian needs to insulate itself from such situations. The result is, a Guardian session that gets hung, hogs CPU, and has to be manually killed. The solution is to cap the number of messages that can be stored in the pop-up log. Other logs get capped, but the popup log was not. The down side to this is, there is the potential to lose popup messages from the log, but this is likely an acceptable price to pay. Hopefully, this will be accepted into OB8.2. Level of effort is expected to be <1 day.

Problem: Small Enhancement: Provide user ability to order data for time series display. (DR 19013)

Currently, in the Single Station Mode of the Time Series Display Control window, when a user selects a station, a list of elements available for plotting in the Time Series graph/table are displayed. The list is based on the SHEF Physical Element, Duration, Type/Source, and Extremum values. The list is also arranged in alphabetical order according to Physical Element. When there are multiple type/sources associated with one specific Physical Element, the items are listed alphabetically according to Type/Source.

The user should have the ability to define the order in which the elements will be displayed. This user-defined order should be able to be used as the default display list for a given location.

Problem: In climate F6, min. MSLP for month is incorrect. (DR 19009)

Todd Shobe at ILN reported that the minimum MSLP for the month in the climate F6 station is showing the same minimum MSLP for KDAY (Dayton) and KCMH (Columbus) as it is for KILN (Cincinnati).

He has checked the minimum pressures reported in the product for the month versus the actual values, and found that Cincinnati's minimum pressure is correct, but Dayton and Columbus should have different values, not the same as Cincinnati's.

I looked at the climate F6 products for several other WFOs, and noticed that they were also getting the same listed minimum MSLP for the month at each of their climate sites. It seems that there is a bug in the software that is putting the minimum MSLP from one of a WFO's climate sites onto the other sites.

The operational impact is that the climate F6 product has incorrect data.

Workaround. Manually edit the product after it's been produced.

Problem: Small Enhancement: Adjustment to the Marine Zone listing in WarnGen. (DR 19008)

The OS Marine Program will be making the following policy change, which will impact the WarnGen program:

When multiple marine zones are covered by an SMW or MWS, the formatter should list only the location points at the far ends of the combined zones, and eliminate the intermediate points. We would also like the formatter to list the zones in the numerical order of the associated UGC codes. Also, the Text WarnGen QC for matching up the number of UGCs with the number of counties/zones listed needs to be eliminated for the SMW, the follow-up MWS and the stand-alone MWS. Otherwise, forecasters will receive false QC errors.

Problem: QCSHIFT mod get strange behavior in IFP. (DR 19004)

QCSHIFT mod:

1. Call up the M19 fgroup in IFP and navigate to the MUSI4 segment.
2. There are three plots in the segment. The second is a plot of discharges from ILNI2 which is Lock and Dam 16 on the Mississippi River. The third plot is for the city of Muscatine along the Mississippi River.
3. The following mod is in the M19 mod file:

```
.QCSHIFT 02170718Z 0530
```

```
MUSI4 3.98 44419. / ILNI2 $ RICOE 03/07/07
```

4. The mod should only be applied to the second plot which uses the ILNI2 rating. However, it also seems to be applied to the MUSI4 data in the third plot.

5. To make matters more confusing...If we comment out the QCSHIFT mod, rerun the segment, uncomment the mod, and rerun the segment again, then the mod appears to only be applied to the second plot as it should.

Problem: OB8.2 - AF: Increase timeout value for service backup to complete (REF DR-18910). (DR 19000)

When the grids were imported by the sites with resolution of 2.5km, size becomes so huge and MHS discards the products when received at the site. This is because time taken for transmitting the products extends for few hours and hence site discards. So as part of the solution, the timeout value for the grid products transmitted from NCF, is specified as part of service backup response that is sent from NCF.

This problem has serious impact to the forecasters/end users. Problem occurs whenever the site imports grid data from central server with resolution of 2.5km.

Import of configuration and grids are done by end users at the site and there is no workaround other the code fix.

Problem: boxstats_cleanlogs cron missing on servers. (DR 18999)

The boxstats_cleanlogs script is no longer functioning and cleaning the /usr/local/perfdat/ directory when it is run via cron daily.

Solution: line 18 of the script should be changed from:

```
$numberoffilesnow = `ls -al /usr/local/perfdat | grep "top.out" -c`;
```

to

```
$numberoffilesnow = `ls -al /usr/local/perfdat/ | grep "top.out" -c`;
```

This problem seems to have started with the OB7.1 install, and is due to the fact /usr/local/perfdat is now a link to perfdat-1.0, and doing ls -al on the link will yield only the link, and not the contents of the directory it references.

Workaround. NCF has access to a fixed script which they can push to, and execute on, a device whose /usr directory has reached 90% and alarmed at the NCF.

Impact: If a site's /usr partition should reach 100%, programs which access this directory could cease to function. The probability of this occurring is very low, considering the NCF monitoring and that no live data is housed in this partition.

Problem: Snowdepth is -1 instead of T in Climate F6. (DR 18997)

The climate F6 program displays '-1' for the maximum snowdepth in the month, if the max snowdepth was a trace, instead of 'T'.

This bug was fixed with DR 17019 in OB7.2. However, after some investigation, it appears that the fix was overwritten in the codeset by code for another change to the F6 program.

The fix in DR 17019 needs to be put in c_build_f6.c again.

The operational impact is that in the GREATEST DEPTH section of the PRECIPITATION DATA part of the F6 climate product, if the greatest depth of snow for the month was a trace, it will say -1 instead of T.

Workaround. Manually edit the product after it is produced.

Problem: SAFESEAS: Anchor button stuck on Red. (DR 18996)

The Juneau WFO has reported (TT 265700) a constant red color for their SAFESEAS anchor button (formerly on the D-2D pane, now in Guardian). This behavior makes the button unreliable as an alert tool, because forecasters cannot tell whether the button color properly reflects selected SAFESEAS thresholds for wind speed, wave height, and other parameters. Some workarounds, assuming various possible explanations for this behavior, have been tried unsuccessfully over the last few months. The root cause has just been diagnosed as a faulty initialization of certain mesonet parameters -- they proceed through the code with erroneously high values. This behavior could potentially affect the SNOW button as well, since it uses the same code. This DR is listed as "critical" because there is no workaround.

Problem: D-2D: Hourly precip and run total precip are inconsistent. (DR 18995)

In D2D, when you display "run-total-precip" it's not working.

The one hour increment model option. It's not adding up the run total correctly. It should be adding it up in one hour increments. Instead of adding up each hourly. It's adding up one 3 hour total and adding it 10 times.

(D.F. 4/7/2007) Have seen this with RUC40 model. The 6 hour total precip does not match run total precip on the 6 HR forecast.

Problem: Riverpro crashes when issuing products with more than 20000 characters. (DR 18994)

WFO EAX was attempting to issue Flood Statements to include all of the locations in their HSA which were in flood. There were around 30 locations. When the created and issued this product, the product was disseminated to the public. However, Riverpro crashed before it could write the information to the hydro database.

Specifically, tables which record location-specific vtec information (vtecevent) previous product information (fpprevprod), as well as the entire text product (text product) were not updated. As a result, Riverpro does not retain the information from that product issuance. This can have severe, negative impacts on the application performance during wide-spread flood events. Sites could end up having flood events expire prematurely because the database wasn't updated with the latest information. Also, service backup is impaired because the vtec information is not shared with the backup offices.

The limitation is products greater than 20000 characters. In practical terms, VTEC Flood Products which contain more than 20-25 locations will suffer the consequences of this behavior. EAX was issuing products including 28 locations when this happened.

Workaround. Limit the number of locations in a product to fewer than 20.

Problem: Missing Some Frames of GOES High Density Winds. (DR 18993)

Hidensity wind been test in lx1-napo, we had the same problem as ARX reported.

In /data/fxa/point/HDW/netcdf:

```
ls -rlt 20070506_1*  
-rwxrwxr-x 1 fxa fxalpha 22744 May 6 12:24 20070506_1000  
-rwxrwxr-x 1 fxa fxalpha 2840140 May 6 12:34 20070506_1100  
-rwxrwxr-x 1 fxa fxalpha 2826856 May 6 15:34 20070506_1400  
-rwxrwxr-x 1 fxa fxalpha 37756 May 6 18:24 20070506_1600  
-rwxrwxr-x 1 fxa fxalpha 2057572 May 6 18:34 20070506_1700
```

Compare:

20070506_1600 (no wind display, 279 records)

20070506_1700 (wind display normally,18999 records)

Raw bufr data been examined, some of the data did not been stored into netcdf. We need to trace the problem into bufrDriver.

Problem: Small Enhancement: Time Series to Display Height and Flow Values at top of graph. (DR 18991)

When the user selects to display river stage data (i.e. those data whose SHEF Physical Element begins with H), the graphical time series will also plot a corresponding discharge scale on the right hand y-axis if a rating curve is defined for the location. When the user moves the mouse cursor over the time series plot, a readout will be displayed at the top of the graph, showing the stage data value and observed time based on the placement of the mouse. In cases where a rating curve exists, and a corresponding discharge scale has been plotted, this readout at the top of the graph should also display the corresponding discharge value in addition to the river stage value. The reverse behavior is also desired--if discharge is plotted, and a rating curve exists allowing a corresponding stage scale to be plotted, the readout should show both discharge and stage.

Problem: Small Enhancement: Enable User Control over language in Alert/Alarm Messages. (DR 18990)

The alert/alarm functionality with the OHD Common software generates a text message which is posted to the text database. This message contains information regarding locations which have exceeded alert and/or alarm thresholds for various data elements. The message is pre-formatted. Users would like the ability to control and modify the language which is included in these text messages.

Problem: Small Enhancement: Modify Editing Capabilities of HydroBase Flood Report Feature. (DR 18989)

Within the Hydrobase application, the user has the ability to display Flood Report information in both a graphical and tabular format. The Flood Report information is made up of separate flood events. Each event contains individual observations of river stage/discharge. Currently, users cannot delete individual observations within a given flood event; they can only delete flood events. Also, users can only delete 1 flood event at a time.

Users should be able to delete individual observations within a flood event and have the application recompute rise above flood stage time, flood crest time, and fall below flood stage time based on the deletion of individual observations.

Also, users should be able to delete more than one flood event at a time.

Problem: Small Enhancement: Add arithmetic operations to Riverpro. (DR 18987)

Riverpro currently retrieves information from the IHFS database and inserts into a product via a variable substitution methodology implemented in Riverpro templates.

There is a need to allow for simple arithmetic operations in Riverpro templates. Users should be able to construct addition, subtraction, multiplication, and division operations within Riverpro templates. These operations will be performed on either a set of variables or a combination of variables and defined values.

Problem: Small Enhancement: Allow users to configure Hydroview font size. (DR 18996)

The Hydroview application allows the user to modify the font size of the display icons and corresponding data. However, the user must go to a menu and select the font size to be used. When Hydroview starts up, the font size used is predetermined by the application.

The user should be able to configure the application so that the user-selected font size is used upon application start up (for example, an `.Apps_defaults` token could be used to facilitate this). Also, the user should be able to define the font size as one of the attributes in the Hydroview Point Data Preset definitions.

Problem: HydroGen rounds Gage Zero value to tenths of a foot. (DR 18985)

The current HydroGen application retrieves the Gage Zero, or zero datum, value from the `zd` field of the `rivertstat` table in the IHFS database. The data in the `zd` field is often specified to hundredths of a foot. However, the HydroGen application rounds this value to the nearest tenth of a foot. HydroGen should retrieve the data as it stored in the database and do no rounding.

Problem: SCAN: Non-low-cored Mesocyclone will not show in the SCAN MESO Table. (DR 18984)

The ORPG will add the implementation of associating storm ID and Mesocyclone features by using 20 km distance to remove high MESO false alarm in the ORPG Build 9 emergence release. Based on this change, some of the Mesocyclones (non-low-cored features but more than 20 km

away from any storm identifiers which are labeled as "???" in the MD radar product) will be missing from our SCAN MESO Table display.

The reason of this DR is rated as "critical" is because some Mesocyclone important information will be missed to represent to forecasters and thus may mis-lead them in severe weather events for their decision making. Although the percentage of the non-low-cored mesocyclones is low, we like this DR to be included ASAP to accommodate the changes caused by ORPG.

Problem: Point Precipitation Accumulation feature fills up /awips/hydroapps space. (DR 18980)

The Point Precipitation Accumulation function within the HydroView application allows a user to select one or more durations, data elements (PP, PC, or both), and data sources, and as well as a variety of filter and sort options. The output is a tabular listing of precipitation accumulations for the durations which have been selected. The process also writes 3 files to the /awips/hydroapps/whfs/local/product directory:

paccum_hdr.ccccc

paccum_data.ccccc

paccum_out.ccccc

where the ccccc is the numeric Linux process id for that instance of Hydroview.

For the duration, the user can select from a scroll-list of pre-defined durations (1-hr, 3-hr, 6-hr, 12-hr, 24-hr, 48-hr, 72-hr), or a user-defined duration may be selected. When selecting a user-defined duration, the user must select the "Other" value from the scroll-list of durations, as well as enter the duration, in hours, in the box labeled Other, which is beside the duration scroll-list. The "Other" value in the scroll-list is at the bottom of the list, so the user must scroll through the list to select it.

If a value is entered in the Other box, WITHOUT selecting the "Other" value from the duration scroll-list, the application will write to the paccum_data.ccccc file until it consumes all the available disk space in the /awips/hydroapps directory. The Hydroview application will hang, and ultimately crash. When the disk space fills up, the shef decoder will be unable to write its log files, and it will stop processing data. Other applications which write log files will also be unable to successfully process data, including the dpa decoding process (which decodes the radar precip estimates which are the input to MPE).

If the user desires to see a precipitation accumulation for a duration other than one of the pre-defined durations, s/he must make sure to select "Other" from the list as well as define the duration.

Problem: SPCcheck:LLL-tor/svrWatch.txt not have all counties in a watch(8.1 18872). (DR 18979)

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). There might be bugs in the code.

Problem: Small enhancement request: Add -V option to GFE for runProcedure. (DR 18978)

Fred McMullen at RLX is requesting that the -V option be added to /awips/GFESuite/primary/bin/runProcedure.

The option allows focal points to run GFE procedures from a cron with different options other than what the GFE procedure defaults too. For instance...

```
./runProcedure SevereWx -V " 'CAPE', '1000"
```

This allows the GFE procedure to run with a CAPE of 1000 instead of the default of 500.

Problem: NCEP/Hydro -> HPC Precipitation menu incorrect. (DR 18976)

The NCEP/Hydro -> HPC Precipitation menu includes spaces and a divider at the bottom of the menu. It looks incorrect. I'm not sure what the menu should include, but as it is, it doesn't look right. See attached image.

Problem: Small enhancement request: Add PIL for seasonal and annual Climate. (DR 18975)

Cindy Scott at VUY sent in the following small enhancement request:

Here's the basic requirement. The AWIPS climate program currently has the option of making "seasonal" and "annual" summary products and the product PIL is currently hardwired to have these products issued with a CLM PIL. This actually is a violation of the current 10-1004 policy (see page 8). Per this directive, in ER we've created specific PILs for the seasonal, annual summaries, and we've also created a quarterly summary PIL (CLS,CLA,CLQ respectively - approved in DRG #10516 on 4/10/2007). The others regions have indicated they will also be creating these additional climate PILS.

Problem: Ref. OB8.2 program Batch Post not working. (Ref. OB8.1 DR 18889). (DR 18965)

Batchpost got memory fault when input file is over 50000 lines.

BATCHPST 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).

Workaround. 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.

Problem: GFE: Same words removed from second phrase in FWF product. (DR 18964)

Second problem from TT 289099:

Our land management season (PDT) began last week, and immediately we noticed some strange behavior with the RH trends. We are currently using the LM formatter which is just a derivation of the FWF formatter. We occasionally see dropped phrases. The dropped phrase ONLY occurs when the returned phrase should be "LITTLE CHANGE" in the HUMIDITY trends. The LITTLE CHANGE phrase gets returned correctly most of the time; however, it randomly is missing in at least one random zone per update. Here's an example:

```
.WEDNESDAY...
SKY/WEATHER.....PARTLY CLOUDY.
MAX TEMPERATURE.....44-52...EXCEPT 39-44 RIDGES.
  24 HR TREND.....LITTLE CHANGE.
MIN HUMIDITY.....39-50 PERCENT.
  24 HR TREND.....
20-FOOT WINDS.....
  VALLEYS/LWR SLOPES...SOUTH WINDS 2 TO 5 MPH.
  RIDGES/UPR SLOPES...SOUTH WINDS 5 TO 8 MPH.
CWR.....0 PERCENT.
```

Note the missing 24 HR TREND for MIN HUMIDITY.

The missing words for Max/Min Humidity results from the consolidation of sub-phrases.

Workaround. Site overrides or editing of formatter output

No third-party software involved.

Problem: DE: NAM12 & GFS40 display wrong freezing-level heights. (DR 18962)

This DR comes out of TT276800, reported by Matt Foster at OUN.

Although this problem was discovered in OB7.2, it is believed to be pre-existing.

When displaying the Freezing Level Height, when there is a low-level inversion present (i.e. the surface temperature is at or below freezing and a temperature inversion results in the temperature going above freezing at some height above ground), D-2D display of NAM12 shows the freezing level at 0ft, when it should be higher due to the inversion. With the GFS40, it appears to show negative values. This problem happens when the Freezing Level Height is delivered as part of the SBN data flow (i.e., an NCEP-provided freezing level grid) and stored into the netCDF files. For models in which the Freezing Level Height is not included in the SBN data, it is calculated on D-2D load in AWIPS, and those cases do not show this problem.

It needs to be determined for this DR whether this is due to the data or to AWIPS software manipulation of the data, either upon storage or upon display.

Matt Foster, of OUN, who reported this problem states that the impacts can be pretty severe, especially during winter weather situations. The erroneous freezing level plan view plots make it much more difficult for the forecasters to determine the depth of a surface-based sub-freezing layer. This directly affects the determination of precipitation type...most notably discerning between freezing rain and sleet, which is an extremely high-impact decision.

This could also impact aviation icing forecasts, which we don't do at the WFO level, but could potentially affect other offices or centers that do these forecasts.

Problem: Progress bar doesn't appear in service backup. (DR: 18959)

The progress bar does not come up during service backup at many sites because 'PYTHONHOME' is not listed as one of the environment variables in /awips/adapt/ifps/bin/hp/ifps-main.env.

Because of differences in configurations, some sites may get the progress bar even without having PYTHONHOME listed as an environment variable (this is the case at TBDW, the Raytheon testbeds).

The operational impact is that it's not clear during service backup what the progress is.

Workaround. Add 'PYTHONHOME' as an environment variable.

This DR is not based on a current trouble ticket.

Problem: AF: acq_goesdesc utility displaying "valid date" field wrong. (DR 18958)

The acq_goesdesc utility (which is used by developers to view all fields from GOES header) displays the century part of the date as 107 instead of 2007. This has to be fixed by adding century portion of the year. There was no trouble ticket generated for this problem, it was reported by a developer. This utility is not used by the field, so there is no impact to the sites.

Operational Impact. None.

Workaround. None, except for code fix.

Problem: No PostgreSQL log file on RFC Archive Server. (DR 18949)

Currently, on the RFC Archive Server (RAX) the transaction log for PostgreSQL is written to the System Log File. With time this has made providing support for the RAX more tedious as the complexity of the database issues have increased. I would like to recommend that the PostgreSQL Transaction Log be written to its own file in a fashion similar to the set up for the IHFS PostgreSQL database.

Problem: Expansion of MAPX in NWSRFS Not Working. (DR 18938)

The version of NWSRFS in release OB7.2 included expanding the capabilities of MAPX in order to improve the forecast support MARFC provides for the to the Susquehanna Flood Forecast Warning System (a joint project among multiple Federal agencies). Now that MARFC is attempting to fully utilize these new capabilities and provide the agreed to support, a number of problems have been found.

After a careful examination of the problem, the following changes need to be made in order for MARFC to fully utilize the increased MAPX capabilities:

FCST

nmapx.f - array length variable increase

PPINIT

sblock.f - DATA statement for array size increase

ssppp2.f - array length variable increase

REORDER

sblock.f - same as for PPINIT

urgtts.f - format statement change to handle increase in number of time-series.

FILESIZE

pppsiz.f - format change for increase in max number of parameters

FILECRAT

pppctl.f - format change to handle increased quantities

SHARED_S

ssppp.f - format change to handle increased quantities.

SHARED_UTIL

fcint.f - format change to handle increased quantities.

The array size changes keep the affected programs - FCST, PPINIT, and REORDER - from working with the expanded definitions. The FILESIZE changes are critical as the input for FILECRAT created by FILESIZE are "starred-out" (FORTRAN fixed format problems) without the changes, preventing FILECRAT from working properly, while the format changes are mostly to keep the program output readable.

Workaround. None.

Problem: The NWSRFS Operations STAGEREV and ADJUST-H Not Working Within ESP. (DR 18932)

Recently, NWRFC changed the definition of their BFEI1 river forecast segment, replacing the LOOKUP3 operation with a FLDWAV operation in order to more accurately forecast the backwater affected stages at BFEI1. Along with using the FLDWAV operation they also included the STAGEREV and ADJUST-H operations to allow real-time multi-stage adjustments to the stage simulation. This has worked effectively within OFS. However, when they attempted to run ESP with this new segment definition, the new segment does not run to completion and ESP crashes.

Upon redefining the segment with the FLDWAV operation but without the STAGEREV and ADJUST-H operations, the segment runs to completion within the ESP run. However, this results in extended water supply forecasts - utilized by other federal agencies - that are not as accurate as expected.

Note: Both OFS and ESP are part of NWSRFS. All operations in OFS are expected to work in ESP.

Problem: River Monitor does not display flood stage or action stage departures. (DR 18929)

The River Monitor application allows the user to review and monitor a wide spectrum of river data and information. Some of the data which can be displayed include departures of current observed or forecast data from flood stage and action stage values. A bug exists whereby in certain conditions, the departure values are not displayed in the River Monitor tool. The bug manifests itself when subtractions result in departure values with more than two decimal places due to floating point representation limitations.

Problem: IFP Snow JAVA Display Not Plotting 6 Hour Data. (DR 18927)

NCRFC (MSR) has discovered that the JAVA display for snow data in the IFP (part of NWSRFS) displays a single value per 24 hours. The display should show one value per six hours - which is the incremental time step of the hydrologic models.

Thus, the forecaster is not able to correlate the data display with the data within the model. Which makes the display, to a hydrologic forecaster, of very little value.

Workaround. None.

Problem: OB8.2: Bug in baseline Hazard_WCN: Definition["purgeTime"] misspelled (Ref 18841). (DR 18926)

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.

Joe Lowery, IFPS Focal Point, WFO Memphis, TN (MEG OB7.1)

Matt Foster wrote:

> So, I guess the most "proper" way to fix this immediately is to put a correct Definition["purgeTime"] = 12 in the Hazard_WCN_Local file?

> Matt @ OUN

Code changes have been checked into OB8.1. Test cases need to be updated.

Problem: OB8.2: Guam: Climate product still says LST (Ref OB8.1 DR 18744). (DR 18925)

The Morning Climate Product includes the time stamp CHST at the header of the product once the NWWS report is created, however towards the end of the product, next to sunrise/sunset time it still says LST instead of CHST. The fix will require some major code changes.

Contact person: Darnell.Early@noaa.gov

Problem: ofsshef Not Correctly Calculating Flow in CMS. (DR 18921)

ofsshef does not properly format flow data in CMS. ofsshef is being used to support data transfer for the CHPS/FEWS pilot project with Delft. Extensive editing of a new shef product by a forecaster, is required to input the correct values. This workaround is very tedious and time consuming.

Upon examining the source code, it was found that at line 600, flows are being divided by 1000 for both CFS and CMS units. The SHEF format for flow timeseries is in KCFS or CMS units (not KCMS). CMS and CMSD should not be divided by 1000, and it would be desirable to have output to 3 decimal places for flow data in CMS.

Problem: SAC-SMA Display Window not display accurate dates, data and FGIX Plot. (DR 18920)

NCRFC (MSR) has discovered the following problems with the SAC-SMA JAVA display in IFP:

1. The dates and time are not visible at the bottom anymore.

2. Data displayed should be one value per six hours - but it appears to be a single value per 24 hours
3. The FGIX (frozen ground) plot does not display any relative data. The FGIX variable doesn't have a maximum value like the other SAC-SMA variables. It starts at zero at the beginning of the winter and gets more and more negative as the cold weather persists. The value of the FGIX variable for the segment being viewed in this image is actually about -34, but you can't determine that from the display.

Thus, the forecaster is not able to correlate the data display with any particular date, nor does the display show the values of the FGIX.

There are no workarounds

Problem: ORPGCommsMgr fails to close open files before deleting (OB8.1 DR 18916). (DR 18917)

This is an OB8.2 duplicate DR of OB8.1 DR 18916 and 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.

Workaround. 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 trace: EMFILE (Too many open files) is given when the calling process has too many open files in memory, and not the OS.

Problem: msg_stats modification for sendmail queue relocation. (DR 18914)

The msg_stats utility references the /var/spool/mqueue for the sendmail queues when executed from the NCF when it should reference /var/spool/mqueue/mhs#. Need to make it display the sendmail queue information depending on whether it is running at the NCF (A/B/T) or a site. The version currently running in the field is correct for sites, but not for the NCF. The change will make msg_stats run correctly at both locations. There is no impact to the sites for this change, only to the NCF. This utility is not used by forecasters. There is no workaround. Impact is minimal since the information is available elsewhere.

Problem: Correct D-2D displays of RAOB soundings to accommodate up to 150 levels. (DR 18909)

The D-2D Skew-T display uses RAOB sounding data from MicroART and RRS (the Radiosonde Replacement System), via the TUABUFR encoder and the RAOB BUFR decoder. RRS has higher data resolution and produces additional “significant” levels in the BUFR encoding. In particular, the TTBB or TempB product now includes up to 135 levels.

Both the RAOB BUFR decoder and the Skew-T display are apparently limited to 75 significant levels. Both need to be upgraded to handle 135 levels in TempB. Note: the Skew-T program merges the TempA plus TempB products for display, so the Skew-T upgrade needs to enable displaying a merged total of up to 150 levels.

Other AWIPS products that may be affected or may need similar RAOB upgrades are:

- * Interactive Skew-T extension,
- * Plan View Plots,
- * IGC to display data in Volume Browser, and
- * the model sounding displays.

Problem: IGC: Disable the capability of moving storm centroid with middle mouse button. (DR 18905)

While preparing the WarnGen SVS product in March 29, 2007, two users in GLD were unable to update the location of the storm when trying to drag the dot (storm centroid) to where the storms current locations was, it wouldn't hold. The dot would just go right back to its previous location.

The fact is the users mistakenly used the middle (instead of the left) mouse button to move the storm centroid when preparing the SVS product in the heat of battle. Although the problem was user error, Jim Ramer's recommend to have fix to it so the software does not allow this error.

The error delayed the issuance of followup SVS statements for tornado warnings for that particular case, but can also delay the issuance of other WarnGen followups.

Workaround. None.

Problem: Guardian: Need distinctive sounds for different radar product alerts. (DR 18900)

Kevin Woodworth has recently discovered that when the MD and TVS products reach the threshold that they have set at their RPG, they no longer get the distinctive alarms that they have set up for each product. Kevin believes that this is going to be a very large problem come severe weather season. As it stands right now, you can only set one sound for each priority and he would like to be able to have different sounds to differentiate the two products.

Workaround. None known.

Problem: GW: Incorrect display units for Snow Depth and Water Equivalent. (DR 18899)

ARX reported two problems with the D-2D display which was put into TT 288316. The problems described were verified on NAPO:

The Snow Depth and Water Equivalent Snow Depth guidance from NAM and RUC model data via the SBN are displayed with incorrect units on the D2D. These two fields are either misleading to forecasters or do not display via D2D (but do load) in the current baseline.

1. Snow Depth field: SnD, units are improper (code assumes it is in mm). Available via NAM12.

Fix:

nationalData/contourStyle.rules entry:

* SAcc, SSAcc, SnD, Surface

in | .03937 | 0 | 4 | | | ..|8000F0FF| | 16 | \

0.1 0.5 1 1.5 2 3 4 6 8 10 12 15 20 30 40 50

should be:

* SAcc, SSAcc, Surface

in | .03937 | 0 | 4 | | | ..|8000F0FF| | 16 | \

0.1 0.5 1 1.5 2 3 4 6 8 10 12 15 20 30 40 50

* SnD, Surface

in | 25.4 | 0 | 4 | | | ..|8000F0FF| | 16 | \

0.1 0.5 1 1.5 2 3 4 6 8 10 12 15 20 30 40 50

/nationalData/gridImageStyle.rules entry:

* SAcc, SSAcc, SnD, Surface

in | .03937 | 0 | .05 | 50 |x|,c| 29 | 6 | 0.1 0.3 1 3 10 30

should be:

* SAcc, SSAcc, Surface

in | .03937 | 0 | .05 | 50 |x|,c| 29 | 6 | 0.1 0.3 1 3 10 30

* SnD, Surface

in | 25.4 | 0 | .05 | 50 |x|,c| 29 | 6 | 0.1 0.3 1 3 10 30

2. Water Equivalent Snow Depth, WEASD, needs an entry in the rules files to correct the units. Currently stated as units of meters but it is mm I believe. Again, NAM12 can be used to test.

in nationalData/contourStyle.rules:

* WEASD, Surface

in | 0.03937 | 0 | 4 | | | ..|8000F0FF| | 16 | \

0.1 0.5 1 1.5 2 3 4 6 8 10 12 15 20 30 40 50

and in nationalData/gridImageStyle.rules:

* WEASD, Surface

in | 0.03937| 0 | .05 | 50 |x|,c| 29 | 6 | 0.1 0.3 1 3 10 30

Workaround. Site makes above changes and relocalizes.

Problem: GFE: issue with embedded visibility phrase. (DR 18894)

Thomas Spriggs' email from the ticket description:

(2) Second problem: the text string " WITH " is missing when using these parameters (this is not set by default in the baseline_ZFP formatter but are baseline and supported):

embedded_visibility_flag set to "1"

visibility_wx_threshold set to "2"

I also have this in the PoP/Wx elements for Tonight:

6pm-12am: 10 PoP / NoWx

2am-6am: 10 PoP / Wide 1/4SM F+

I get this output in my ZFP formatter:

WIDESPREAD DENSE FOG VISIBILITY ONE QUARTER MILE OR LESS AT
TIMES AFTER MIDNIGHT.

It should be outputting:

WIDESPREAD DENSE FOG WITH VISIBILITY ONE QUARTER MILE OR LESS
AT TIME AFTER MIDNIGHT.

I was able to trace this back to the addEmbeddedVisibility (WxPhrases) to 3 lines before the end where it reads:

if words != "" and sigFlag != 0:

visWords = " with " + visWords

For some reason this changed between OB7.1 and OB7.2--not sure why. It simply does not work as designed with this code like it is. When I change it to what it was in OB7.1, it works:

```
if words != "":
    visWords = " with" + visWords
```

Workaround. Editing of formatter output or region/site overrides.

No-third party software involved.

AWIPS_DR_18893 GFE: no timer phrases with thunderstorm attributes Thomas Spriggs' email from the ticket description:

(1) First problem: no timer phrases with thunderstorm attributes when given a specific situation.

If I have this in the PoP/Wx elements for Tonight:

```
6pm-12am: 60 PoP / Lkly TRWm GW,SmA
12am-6am: 60 PoP / Lkly TRWm
```

I get this output on the Baseline_ZFP:

```
THUNDERSTORMS LIKELY. STORMS MAY PRODUCE GUSTY WINDS AND
SMALL HAIL.
```

Unlike any other weather issue, there is no timer phrase associated with the thunderstorm (T) attributes. Ideally I want this output:

```
THUNDERSTORMS LIKELY. STORMS MAY PRODUCE GUSTY WINDS AND
SMALL HAIL IN THE EVENING.
```

For some reason, I was able to trace this back to when it consolidates coverages through checkWeatherSimilarity (PhraseBuilder) and similarCoverageLists (WxPhrases). When it finds like coverages, it will remove the time information from the thunderstorm attributes. When different coverages (e.g. Sct and Lkly) are used, it preserves the timing, and I get correct output. For instance, this produces correct output because the coverages are not the same:

```
6pm-12am: 60 PoP / Lkly TRWm GW,SmA
12am-6am: 60 PoP / Chc TRWm
```

Workarounds: Overrides or editing of formatter output.

No third-party software involved.

Problem: Data Monitor: Clean up typos. (DR 18892)

There are a number of typos in the Data Monitor configuration files:

1. grid.cfg - Change GRID130RUC13.html to GRID130RUC.html. This typo causes the information page for RUC13 not to load when the yellow note icon is clicked.

Workaround. Site makes the above change to px1:/awips/fxa/data/grid.cfg

2. REG182OPCWave.html - Change "24 hours old" to "12 hours old"; change "48 hours old" to "24 hours old". These changes will reflect, on the information page, the actual ages at which alerts start to appear if this data is not being received on time.

Workaround. Site makes above change to
px1:/data/fxa/data/htdocs/dataMon/infoPages/REG182OPCWave.html

3. NDFDRTMA.html - Change "1 hours" to "1 hour" - low-impact typo
4. GRID130RUC.html - Change "2 hour" to "2 hours" - low-impact typo

Problem: DS decom: Add legalArchiver.sh to dx1cron file (Ref. DR18786). (DR 18890)

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.

Problem: problem with hmMonitor Server - climate doesn't always alarm. (DR 18881)

At site LMK, the climate fails to alarm for the afternoon climate to let the forecasters know it's time to run the climate. The hmMonitor server is responsible for generating this alarm. The alarm works for the the other two daily climate runs.

Workarounds. One workaround at LMK is to set an alarm outside of AWIPS that tells the forecasters it's time to run climate.

Another workaround is to restart the hm Monitor server. Climate will alarm sometimes for a few days again, before it starts failing to alarm again.

I believe I recall hearing of this problem at another site in the past, but currently LMK is the only site reporting the problem.

I haven't been able to reproduce the problem on a test system.

Problem: In LSR, incorrect hail size shown as default. (DR 18880)

In the LSR GUI, it is possible to set a default value for the fields (ex. trained spotter), event type (ex. hail) and hail magnitude (ex. 1/4" pea, 1/2" penny) by right clicking on the desired type in the drop-down menu.

If defaults are set by right-clicking, when an event report is saved, the new blank event report will have the selected default values already set. The problem is that for hail magnitude, no matter which default is set, the printed report will list 1/4" pea.

The workaround is to go into the drop-down menu and select the desired hail magnitude by left-clicking.

A major issue is that reports for pea size hail can be issued unknowingly - it will say penny size hail in the drop-down menu of the GUI if that has been defaulted earlier, but the report will be issued for pea size hail if the size is not explicitly chosen by left-clicking in the drop down.

Eric Lenning at LSX says that this problem has caused quite a few incorrect LSRs to go out that had to be corrected.

I was able to reproduce the problem on the NHDA test system.

Problem: Small enhancement: modify auto word-wrap in GFE product editor. (DR 18876)

The GFE product editor needs to be changed so the auto word wrapping function recognizes "&&" and "\$\$" strings as paragraph delimiters. NWS Directives require formatting using "&&" as a separator without a preceding blank line:

SHORT TERM /TONIGHT THROUGH WEDNESDAY/...

HIGH PRESSURE OVER THE SOUTHEASTERN U.S. WILL MOVE TOWARD THE MID-ATLANTIC TONIGHT AND MOVE OFF THE COAST TUESDAY...WHILE A WARM FRONT REMAINS TO OUR NORTH THRU THE PERIOD. THIS WILL LEAVE THE AREA IN A BENIGN...AND MUCH WARMER THAN NORMAL AIRMASS THRU TUESDAY.

&&

When a formatter returns text like this, and the paragraph is edited, the "&&" is wrapped back up into the paragraph. "&&" is a special terminator sequence that must be preserved on a separate line. Because the terminator can be wrapped back into the paragraph, products can be transmitted with formatting errors.

Problem: Intermittent problems with HWR product getting over to CRS. (DR 18871)

The site are having a problem with their HWR products where in any given hour, none or some or all of their HWR products aren't making it to CRS. When this problem happened, the site was in failover mode by failing DX1 to DX2. The exact problem happened to LWX site on 2/26/2007.

Workaround. Manually send the missing products over to CRS.

Impact: Minimum impact to weather forecast operation.

Note: A debug version of NWR needed to be installed at the trouble site when the site has Release 7.2 or earlier and is in failover mode to diagnose the root cause of problem. If the site has Release 8.0 or later, the site needs to turn on the debug flag for logStreamExpect log in the ingestLogPref file to diagnose the root cause of problem.

Problem: DatView Will Not Display More Than Fours Years of Stage Data. (DR 18870)

When attempting to display more than 4 yrs worth of stage data in the DatView plot window, the plot will only display the first 4 years and then leaves the rest of the time period blank.

Further testing has shown that it seems to be only data coming from the pecrsep DB table that has this problem.

Workaround. Never request more than 4 years' worth of data from the pecrsep. This is considered to be an unacceptable long-term solution.

Problem: PRODGEN can't find the existing files. (DR 18867)

ALL THESE FILES DO EXIST IN THE /awips/hydroapps/lx/rfc/nwsrfs/ffg/files/oper/text/DIRECTORY, but get ERROR Message:

```
ERROR: in fixopn - upopen status code -1 encountered opening file
/awips/hydroapps/lx/rfc/nwsrfs/ffg/files/oper/affg/THTC2U.
```

Problem: WarnGen follow-up with no weather context. (DR 18866)

If one loads only warnings and then tries to do a followup, the tracking icon will not initialize right and the product gets formatted incorrectly.

The code fix is available and has been tested in OB8.1 at GSD.

Problem: Incorrect MAT Computations Generated by NWSRFS Module NDFD2RFS. (DR 18846)

When the ndfd2rfs module encounters a forecast segment where there are two MAT areas, and one of the zones is non-contiguous, the program computes erroneous forecasts.

For example, at NERFC, the SNE (Southern New England) group is in the southern most portion of their HSA where the areas are not subdivide. In this group, the temperature drop across the group as expected. The module then attempts to compute the temperature forecast for the Connecticut group. The computation appears to work for the first few segments . The program then issues a warning when it encounters the first non-contiguous zone and from that point the temperatures do not vary as expected in the Connecticut group or forecast segments in other basins.

The non-contiguous zone covers mountainous terrain that is delineated based upon elevation of a predetermined height.

Problem: KSEW station_name incorrect in hmdb database table station_location. (DR 18844)

Seattle WFO reported that the station_name field of the station_location table of the hmdb database for station KSEW is incorrect. It currently reads "STANWOOD WFO" and it should read "SEATTLE WFO"

```
hmdb=> select station_id, station_code, station_name from station_location where
station_code = 'KSEW';
```

```
station_id | station_code | station_name
```

```
-----+-----+-----
18675 | KSEW      | STANWOOD WFO |
```

(1 row)

Problem: RiverMonitor displays old forecast data. (DR 18824)

The RiverMonitor application allows the user to display, in tabular form, a column of information which provided the maximum forecast value for a given location. Also, another column will display the Maximum of either the most recent observed value or the forecast value. However, there is not time filter on this column, so the application can display old forecast or observed data without presenting a visual cue to the user that the data is old (as is done with other columns of data in the application). Also, if this old data is greater than flood stage, the tabular cell displaying the data will be colored red, providing a false indication to the user that there is flooding occurring/forecast to occur.

These two columns of data--MaxFcstValue and ObsFcstMax--should allow the user to create time filters which consider both the valid time of the observed and forecast data, as well as the basistime of the forecast data. If the data is older than the user-defined time filter specifications, then the tabular cell displaying this data should either be colored gray, following the paradigm used by other data columns, or the data should not be displayed at all.

Problem: Time Series application not displaying Flood Categories. (DR 18821)

The Time Series application allows the user to display flood categories on the time series graphs of river stages. The user can configure the application to always display the flood categories--even if the data is significantly below the categorical thresholds--via the implementation of an .Apps_defaults token called timeseries_showcat. This token has 3 values:

1. Scale the graph to the data and only display the data.
2. scale the graph to the data and display the data and also the categories if the categories are within the scale of the data.
3. scale the graph to the categories and always display both the data and the categories.

The behavior associated with token values 2 and 3 will work properly for the first graph which is displayed during a given time series session. Subsequent time series plots displayed during that session will only scale the graph to the data and will not display the categories.

This problem was first identified in OB6. It was thought that it was fixed for OB7.1. However, examination of the behavior in OB7.2 shows that the problem still exists.

Workaround. User can manually alter the graph scaling to display the flood categories. This takes a couple extra user actions to accomplish.

Problem: Small enhancement request: Request to change serverConfig.py file. (DR 18813)

The following is from Matthew Belk at site BOX:

Many offices across the country use a default domain that is different from the default entries in the /awips/GFESuite/primary/etc/BASE/serverConfig.py file. These default domains created back around 2000 or earlier, are now out of date for various reasons. Many offices have changed to smaller domains when they changed to a higher grid resolution. The original grid spacing implemented in GFE was 20 km back in 2001; it is now 5 km at a maximum. The default domain entries in the serverConfig.py file need to reflect the current defaults used by each office. Otherwise, this could lead to failures or other unexpected results during GFE service backup or installs.

I request all offices be canvassed to supply their current GFE domain settings for inclusion into the serverConfig.py file. This will update the baseline settings and provide for a more viable failsafe.

Problem: Small Enhancement: Inclusion of Tide Data into the Archive DB and Verification. (DR 18810)

Data with a time interval of less than 15 minutes does not always fit cleanly in the 15 min interval format of the RFC Archive DB pcrsep table format. In particular, tidal gage data with a 6-minute interval is impacted at NWRFC (and SERFC in the near future). The fact that this data is not stored with its best fit into the pcrsep table makes verification of forecasts extremely difficult.

Solution: A new database table, one new apps_defaults token and some code changes to the shef_decode_raw and IVP (verification) applications.

- new table would be a single value per row format.
- new apps_defaults token for shef_decode_raw apps this token would control if shef_decode_raw posts data to just the pcrsep table or to both the pcrsep table and the new table.
- shef_decode_raw, the software would be modified so that if the token is set to say "ON" the decoder would post all data that would go into the pcrsep table, to it and the new table as well.

This means that the same piece of data would be stored in both tables. In the pseudo array table, pcrsep data with the smaller time interval is shoved into the best fit time slot while in the single value per table, i.e., the new table, it would be stored with its true observation time. RFCs that do wish/need to post in parallel to this new table would set the token to "OFF" which should be the default setting.

IVP (verification), the software would be modified to allow observed data during the parsing process to be retrieved from this new table.

Problem: Small Enhancement: Modify the NUMCOSAV command of the ofs fcst program. (DR 18809)

Requirement: Modify the NUMCOSAV command of the ofs fcst program to save retrospective carryover information at any time during the day (6hr, 12hr, 18hr, or 24 hr), not only at 24 hr.

Currently the ofs fest program is run for ESP in the hindcasting mode to generate streamflow ensembles from different 6-hour meteorological input ensemble forecasts relative to different time windows. Some pre-processed meteorological ensembles are generated in internal time from 0hour - internal time (day1) to 0hour - internal time (day 2) and are then used to generate streamflow ensembles.

The carryover data information generated by the ofs fest program in the hindcasting mode with the NUMCOSAV command is always relative to 24hour - local time. If another time is specified by the user, there is a time shift to generate the carryover information at 24hour – local time.

In that case, the carryover data information generated by the ofs fest program

is relative to 24hour - local time (day 1) whereas the first input forecasts are relative to 0-6hour - internal time (equivalent to 6-12hour – local time) (day 2) and the first flow forecasts are generated for 6hour - internal time

(equivalent to 12hour – local time) (day 2). The carryover data relative to 24hour local time (day 1) is used as if it was relative to 6hour local time (day 2). There is an implicit 6hour time shift for the carryover information when streamflow hindcasts are generated and this leads to incorrect streamflow hindcasts.

The ofs program should be more flexible to enable the user to save the carryover data at any time (6hr, 12hr, 18hgr, or 24 hr). For this work, the carryover information would be saved at 6hr local time as it is needed for ingesting the pre-processed meteorological ensembles.

Problem: OFSSHEF Program Mishandling Missing Data. (DR 18800)

If data is missing, the ofsshef program generates a shef message and uses the value -99.0 when it should be using -9999.0 .

Problem: RFC Archiver Shefdecoder Incorrectly Testing Data Limits. (DR 18798)

The RAX raw shefdecoder (shef_decode_raw) is performing limits tests on forecast data when IT SHOULD NOT. The code needs to be changed so that limits tests are only performed on data with SHEF Type code of 'R'.

Background: With the current version of the raw shefdecoder, forecast data is having limits tests performed on it and it is possible for the value of the shef qualifier code to be set to an incorrect value.

Problem: The RFC Archiver SHEF Ref Tables Need Updating. (DR 18797)

The RFC Archive DB tables shefdur, shefex, shefpe, shefpe1, shefpetrans, shefprob, shefqc and shefts need to be updated to include all the SHEF codes that are in the latest SHEF manual (NWS Directive 10-944).

Problem: Observer Information Displayed improperly in HydroBase application. (DR 18796)

The HydroBase application allows the Service Hydrologist to record information about observers which support the Hydrology Program. One of the pieces of information is an address for the observer. The address field is broken into 3 distinct lines. Currently, the information in the 3rd address line is displayed in the first address line, as well as the 3rd address line. The proper information for the first address line is stored properly in the database, it is just not displayed.

This problem did not exist in earlier builds.

Workaround. None known.

Problem: Fatal DataView Editor Error. (DR 18795)

When editing data in a processed SHEF data value table, for ex. pehpsep, after entering the data and clicking the editor "Submit" button, all associated GUI windows close out and a memory fault is reported in the terminal window.

Problem: :HydroBase fails when accessing HydroGen window if hgstation table is empty. (DR 18791)

A new piece of functionality in OB7.2 allows the user to access the hgstation table in the hydro database from the HydroBase application. The hgstation table contains the list of all river locations for which the HydroGen application will generate XML files. These XML files are then passed to the regional web servers which display observed and forecast river data.

If the hgstation table is empty, the HydroBase application will crash when the user attempts to access the HydroGen configuration window.

Problem: HydroBase Flood Report Time Series missing Horizontal Scroll Bar. (DR 18790)

Within the HydroBase application, there is a function which displays flood event time series. The flood event time series is defined as the last observed value below flood stage (prior to the flood), all observed values above flood stage, and the first observed value below flood stage (after the flood). The flood event time series is presented in both a tabular format and a graphical time series format. If the flood event is a long-lasting flood event, the graphical time series should have a scroll bar which allows the user to scroll through the entire duration of the flood event. This scroll bar is missing. It was available in Build OB6 and before.

The flood report function assists Service Hydrologists in reviewing recent flooding and completing various monthly hydrologic reports. The user can view the data in tabular format.

Problem: Precip contour bullseye value shows "xxxx" for values above assigned range. (DR 18788)

This is a very minor issue. When a precipitation accumulation value is more than assigned scale, the bullseye value is shown as "xxxx". See attached image. Problem was seen for GFS and other models. The field has probably dealt with this from the beginning of time and it's a rare occurrence. It probably happens whenever a value goes beyond the assigned scale.

Problem: Small enhancement request: modify way RER is handled/named. (DR 18779)

Site PSR reported that it can cause confusion the way the Record Event Report (RER) is saved. The RER is automatically generated, and then a pop-up comes up that asks the forecaster if he would like to edit it. Then the product can be saved and transmitted.

The confusion comes about because it's unclear from the way the product is named whether the RER has been edited or not, and whether or not it's been transmitted. A forecaster coming in on a new shift would not know from the name of the RER product whether the product has been edited and transmitted or not.

The solution recommended by the site is to give the product different names based on whether it's been modified and transmitted or not. They would like the temporary product to be named WORKRER, and not to be given the RERPSR PIL until it's been transmitted.

They have another request if it's not too difficult. They would like to be able to only check for record events once or twice per day if possible. Currently, climate checks for record events and automatically generates an RER each time it is run, four times per day on the cron.

Problem: Old products stuck in GHG. (DR 18778)

Site BTV reported that in the last couple of months, advisories have remained in the GHG window after they have been cancelled. There is no impact to users - products are cancelled properly - it's just that the forecasters still see an advisory sitting there that's no longer in effect. It can last from a few days to a few weeks.

The operational impact is that it's an annoyance to forecasters, and it could be confusing if there is currently weather going on that's the same as the advisory that's stuck in the window.

I still need to speak with Paul Sisson at the site to obtain a list of which products the problem occurred with and when.

Workaround. None.

The problem has also been reported at site GYX, where a flood advisory remained in effect longer than it was supposed to.

The problem has not yet been reported immediately after it's occurred, so there are currently no log files to look at. To effectively troubleshoot the problem, ASM will need to be notified immediately when the problem occurs again, so that log files can be captured.

Problem: NWRWAVES: Unable to handle double headlines for GLF product. (DR 18775)

Whenever an Open Waters Forecast (ARBGLFLS) is issued with double headlines for Western Lake Superior, NWRwaves drops the body of the forecast and uses the second headline as the body. Is there a work around for this?

Thanks,

Amy Liles of MQT

Reply from Evan Bookbinder on 3/17/07:

I don't have a workaround for you unless it would be possible to either:

1. Remove any blank lines between a double headline and the message body.
...HEADLINE 1...
...HEADLINE 2...
.TODAYS FORECAST BEGINS HERE
2. Encapsulate both headlines into a single headline string.
...HEADLINE 1 IS CANCELLED. HEADLINE 2 REMAINS IN EFFECT...

Since I assume you're using GFE to generate these, I don't think either is possible.

Problem: RadarMsgHandler priority level messages sent to GUARDIAN reassessment. (DR 18767)

This DR is opened to reassess the alarming system built into RadarMsgHandler in conjunction with GUARDIAN.

Sites report that certain reported RDA events, which currently are coded to send priority 4, or 2, messages should be sent as priority 1. Sites have reported upwards of 15+ minutes to be notified by a pop-up that the RDA is down. This could impact operations during a severe weather event.

See below for suggestions from Matt Foster/OUN

We feel that as soon as this message was seen:

RDA Avail = Unavailable

That a priority 1 alarm should have been triggered. This probably corresponds to a message from the RDA like "RDA STATUS: Stat=Standby" or Oper=Inoperable. I don't know exactly what sorts of messages they get from the radar. I can see what's in the radar's log, but I don't know if that's exactly what AWIPS sees.

I've been advised by someone with much more 88D experience than me that the "Base Data =" entry should NOT be relied upon for anything. When that message says, "Base Data = Reflectivity Velocity Spectrum Width" (which may be something like 'Data=All' from the radar), it only means that the three base moments are enabled. It does not necessarily mean that they are flowing normally. There is an example of exactly this in this KFDR case. There is a point in the logs, after the initial failure at 0432Z, where the message, "Base Data = Reflectivity Velocity Spectrum Width", can be seen. This occurred when the staff here at the WFO tried to restart the RDA. The RDA software was in Startup, and generated that message, even though the radar was NOT actually collecting data yet.

Also, we were a bit troubled by the fact that this message...

RDA Avail = Available Maintenance Mandatory

Only rated a priority 4 message. Maintenance Mandatory should trigger priority 2, in our opinion.

Problem: In climate GUI, monthly climate grayed out in import data window. (DR 18761)

The problem is that monthly climate is grayed out inexplicably in the climate GUI under 'Initialize Climate Database' and then 'Import Data Window'

To reproduce, open the climate application. Click on Initialize Climate Database, then from the left-most of the two windows that pops up, choose Import Data Window.

This was reported by Mike D'Angelo at CTP, and reproduced at ASM.

The site was trying to manually edit the monthly climate, and tried doing it this way after they were unsuccessful doing it the normal way through the GUI (not being able to manually edit climate from the GUI is a known issue, DR 17312, and the workaround is to manually edit climate through sql commands in the hmdb database).

The operational impact is that monthly climate can't be imported and edited this way.

Workaround. Manually edit climate through sql commands.

Problem: Small GFE enhancement: Segment the GLF product formatter. (DR 18758)

The Great Lakes' Open Lakes Forecast (GLF) is currently issued in a non-segmented format. This forecast product is inconsistent with all other National Weather Service text forecast products which utilize a segmented format. The segmented text format permits forecasters to group together forecast zones that are meteorologically similar. The segmented format serves to increase spatial and temporal precision and accuracy by more effectively communicating the information in the digital forecast database.

As a result, there is a need to provide the Great Lakes marine community a segmented GLF text product to more effectively group forecast marine zones. The segmented GLF product patterned after the Nearshore Marine Forecast (NSH), Coastal Waters Forecast (CWF), and Zone Forecast Product (ZFP) would fill this need.

This segmented format will compliment the newly-created marine zones in the open Great Lakes waters. Those shapefiles will also be required along with the segmented GLF format.

Problem: Small enhancement request: GLF needs to be in segmented format. (DR 18756)

The Great Lakes' Open Lakes Forecast (GLF) is currently issued in a non-segmented format. This forecast product is inconsistent with all other National Weather Service text forecast products which utilize a segmented format. The segmented text format permits forecasters to group together forecast zones that are meteorologically similar. The segmented format serves to increase spatial and temporal precision and accuracy by more effectively communicating the information in the digital forecast database. As a result, there is a need to provide the Great Lakes marine community a segmented GLF text product to more effectively group forecast marine zones. The segmented GLF product patterned after the Nearshore Marine Forecast (NSH), Coastal Waters Forecast (CWF), and Zone Forecast Product (ZFP) would fill this need.

Problem: SNOW: processor hanging on px1. (DR 18755)

CYS and PUB observed px1 slowdowns due to a SNOW processor hang. The issue was investigated and it was found that the executable was not able to read the thousands of mesonet stations in its localization files -- there wasn't enough memory assigned to handle them all. While this problem has not been widespread and can be worked around (by paring down the mesonet lists in SNOW), the severity of the effect on px1 warrants a DR ranking of "critical" and a fix ASAP. The problem is known and isolated, so there will be minimal turnaround time on this DR.

Problem: Workstation fxa logs are set to different but similar displays. (DR 18753)

The user fxa logs on LX & XT workstations are generally separated into directories named for the display (monitor) the GUI that created the log is running on. For example: if a D2D is opened on the middle monitor (:0.0), the IGC_process, etc. logs should be located in the /data/logs/fxa/display/:0.0/ directory. This may or may not be the case. The following directories are typically seen on XT workstations, when there should only be one:

```
:0
:0.0
localhost:0
localhost:0.0
xt1-mso:0
xt1-mso:0.0
```

This variability is multiplied by three on LX workstations. It is an annoyance for anyone troubleshooting an issue on a workstation because the log could be in any one of the six or more directories for that display.

Problem: DS decom: Change ownership and permissions for legalArchiver.sh script. (DR 18752)

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). It writes its products to an archive directory which is owned by the root user and only the root user has write permission to the archive directory. For the legalArchiver.sh script to be run properly by the fxa user: the legalArchiver.sh script must be owned by the root user and the legalArchiver.sh script must have the SUID bit set so that when the fxa user runs the legalArchiver.sh script, the fxa user temporarily has all of the permissions allowed to the root user. The commands to correctly set the legalArchiver.sh file ownership and permissions would be:

```
chown root:fxalpha /awips/fxa/bin/legalArchiver.sh
chmod 4555 /awips/fxa/bin/legalArchiver.sh
```

Problem: DS decom: Add legalArchiver.sh to dx1cron file. (DR 18751)

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.

Problem: OB7.2.1 SREF: bad data near model boundaries (Ref DR 18731). (DR 18750)

The SREF model data stores on the Alaska system, but I have noticed some border problems with the graphical data. This could also be a problem with Puerto Rico data, but I have not observed the PR243 grids. The bad data does not cause any functional problems, for what I have observed... D2D or IGC has not hung or crashed. I have attached screenshots of this observation.

Problem: Smoothing/pencil feature in GFE loses detail when saving. (DR 18747)

Trouble Ticket, AMA 283959

Forecasters were making changes using the smoothing tool or pencil tool, and after they save their changes, details would change or be lost. It would appear that some of the finer gradation was being lost (or maybe shifted).

How to reproduce:

1. Brings up GFE
2. Edit winds
3. Uses the Pencil tool to drag winds south
4. This changes speed / direction but also makes it a finer resolution (i.e. more than one color to a wind speed)
5. Saves it, and reloads the picture seems to have lost some of the finer details...

What the forecasters would like to see is that their changed details not be lost. We'll need to find out if there is some reason that they aren't saved exactly the same.

Problem: CCF doesn't give dominant weather type. (DR 18746)

Site PQR issued a CCF in which the first 10 hours had a 20% POP and the last 2 hours had an 80% POP. This was from 12Z-0Z. The CCF listed the weather as 'Rain'. This shouldn't have happened because the rain was only for 2 out of the 12 hours. The bug hasn't been reported at other sites.

Workaround. None, except for manually editing the completed CCF product.

Problem: NWRWAVES: The summary message erroneously is sent to CRS. (DR 18743)

Test warning products correctly contain test language and correctly get held in the browser. However, if enough versions of the test warning are generated to trigger the generation of a summary message, the summary message erroneously is sent to CRS.

Problem: NWRWAVES: Unable to decode VTEC line that contains extra white space. (DR 18742)

On rare occasions, NWRWAVES fails to process subsequent VTEC lines of a multi-VTEC line segment.

Problem appears tied to a lack of a “trim” command on subsequent file read statements in the UGC_VTEC_Decoder library.

Problem: NWRWAVES:Crashes with an invalid time when one segment of a multi-segmented prod. (DR 18741)

NWRWAVES Crashes with an invalid time when one segment of a multi-segmented product crosses into the new month

This scenario occurred in a very rare scenario under the following conditions:

1. Product issued at the end of the month (Jan 31st).
2. Multi-segmented product.
3. First segment expires in the new month, but one or more subsequent segments do not.

An example of such a scenario would be a WSW is issued early in the afternoon on the 31st. The first segment contains a higher priority winter storm warning which expires at noon the next day. The second segment contains a lower priority winter weather advisory which ends later that afternoon.

The UGC_VTEC_Decoder in the /bin directory does employ logic to determine whether or not the expiration time of a product carries into a new month (or year). The problem is that the expiremonth and expireyear variables were global. If the logic bumps the expiremonth forward one month, that change is maintained through the remainder of the processing routine.

In the case above, the first segment is correctly adjusted to February 1st. However, the second segment encounters a date of the 31st, resulting in an impossible date of February 31st.

A similar NWRWAVES infolist report (may not be related) filed by Bill Goodman from OKX on 1/22/07:

We noticed a problem with product UGC expiration times last week for products which are valid into next month. Our service hydrologist issued a winter/spring flood outlook ESF on the 19th, which of course does not get CRS display, but whose UGC expiration time (021800) caused a D2D red banner alert. Some offices may have very good reasons for issuing products with expiration times extending into the next month, and by the same token NWRWAVES ought to have equally good reasons for rejecting them, but perhaps less stringent than is now the case?

Problem: NWRWAVES: Canceled/Upgrade Msgs do not contain intro or county/zone list phrasing. (DR 18740)

This appears to be a leftover from previous changes that originally had "canned" statements for cancellations/upgrades to remove the old message from CRS with MRD replace. Since NWRWAVES now uses the actual NWS body text for these products, it makes sense to include the optional phrasing for these products as designated in the NWRWAVES Setup GUI.

Problem: NWRWAVES: Inability to designate Overview Product to pending. (DR 18739)

The separate overview section, which accompanies many non-precipitation (NPW) and winter weather (WSW) products was a new addition to NWRWAVES in V2.6 (OB6.0.3 AWIPS). In this separate module, the code was inadvertently hard-coded to automatically place the output in the /ready directory for CRS transmission, instead of checking the transmit flag to see if the user wanted this product to go to the /pending directory instead.

Problem: PQR - OB7.2 Warngen Template Error. (DR 18738)

A stray unmatched } bracket in the following follow-up templates. It occurs right after the first AREA substitution definition right after the MND section in the upper part of the template:

wwa_fflood_sta_county.preWWA

wwa_fflood_sta.preWWA

wwa_flood_sta.preWWA

wwa_flood_adv_sta.preWWA

wwa_svrwx_sta_county.preWWA

Operational Impact. The SST did some testing with these templates and did not see any problems resulting from the unmatched }.

Workaround. None.

Problem: Bug in makeGridKeyTables may cause it not to run. (DR 18736)

A bug was found in the localization utility program, makeGridKeyTables. The problem is that in the module GridTableServer, the member called _sourceMask in GridFunctionEntry needs to be dimensioned 8 instead of 4. Along with this, about 10 lines of code needs to be changed in the module. This bug existed for a long time, but the first release where this has any effects is OB7.2, because that is the first time that any virtual field table entries refer directly to a grid source with an index ≥ 127 .

I consider it very fortunate that we have not already seen some instances in OB7.2 of makeGridKeyTables simply refusing to run. If that occurred, it would be very bad.

This needs to be fixed as soon as possible. We should definitely DR this for OB8.1 and OB8.2. For OB7.2, there is a workaround should there be problems; one could remove from the virtual field table all references to the following sources:

OPCWave181 OPCWave182 RUC130 RTMA SREF212 SREF216 SREF243

RTGSSTHR LAMPTstorm GFSLAMP DHM ECMWF-HiRes HPCqpfNDFD

However, given how limited the scope of this change is, it might be better to just go ahead and put this code change into the 7.2.1 Dimensions and be ready to go with a new makeGridKeyTables should problems surface.

Problem: nwrWatchDog cron does not fail over to dx2. (DR 18732)

When DX1 is failed over to DX2, the nwrWatchDog cron still checks nwrTrans.pl process on DX1. Since DX1 is down and there is no nwrTrans.pl process running on DX1. This results in nwrWatchDog to activate nwrTrans.pl process every minute and generate a large number of nwrWatchDog log files on DX1 or on DX2. This ends up two nwrTrans.pl processes running simultaneously on both DX1 and DX2. The products ready to be sent in /data/fxa/workFiles/nwr/ready has the same mount point to both DX1 and DX2. Therefore, both nwrTrans.pl processes on DX1 and DX2 are racing the ready products to send them over to CRS. Any products are picked up by the nwrTran.pl process on DX1 will end up hanging in the pending directory since there is no sendToNWR process running on DX1 server. This results in some products stuck in the pending list and not being transferred to CRS intermittently. Unless the failed DX1 server is totally power off, this problem will exist forever.

Workaround.

1. Manually purge nwrWatchDog log files from time to time. Manually send the stuck products in the pending list to CRS.
2. Totally power off the failer server.

Impact: This will interrupt on NWRWaives operation when the site fails DX1 server to DX2 server.

Problem: Guardian and forced settings. (DR 18729)

Forecasters in the field have pointed out that Guardian does not allow for a forced sound file to be played. This was as designed, but the field states very clearly they want/need this sort of functionality.

Problem: Excess D2D saved color schemes display no colors. (DR 18726)

The mechanism to delete saved color schemes comes up with a confirmation window that says "Delete Color table: Linear. Are you sure?" when one of the recently-saved names is selected. It seems the new names can be stored and show up in the list, but cannot be reached by the delete or display functions.

This was seen in OB7.2.1, but is probably not just a problem there -- more likely the repetitive testing just reached the critical number of saves during the testing of OB7.2.1.

Problem: Some processes do not halt when failing back to DX2 . (DR 18725)

Some of the processes do not halt when failing back to DX2.

Problem: MHS does not restart using Mozilla Restart gui. (DR 18724)

MHS does not restart using Mozilla Restart gui.

Problem: Climate F6: max 24hr snowfall only for calendar-day periods. (DR 18721)

Mark Mitchell at site EAX reported that the F6 product is not showing the correct 24 hour snowfall. He is referring to the summary blocks of text underneath the report for each day, under the [PRECIPITATION DATA] header, where it says 'SNOW, ICE PELLETS, HAIL', and 'GRTST 24HR'. The problem is that it only shows the greatest amount in a calendar day, not the greatest amount in any 24 hr. period.

The example that he was referring to at the Kansas City Int'l Airport seems to have been superseded by a higher amount later in the month or manually corrected.

However, I found a good example in the Fairbanks, AK F6 product for February 2007.

Feb 25: .05" water equiv, .6" snow.

Feb 26: .03" water equiv, .3" snow.

Greatest 24 hour precip: .08" on the 25th-26th.

Greatest 24 hour snowfall: .6" on the 25th.

It should be .9" on the 25th-26th, assuming the 24 hour precip. record is correct.

Workaround. Manually edit the max snowfall in the F6 product.

Problem: Neighbouring. offices do not see ISC grids during duration of SCEC hazard. (DR 18720)

The problem is that neighboring sites didn't see TBW's ISC grids while they had an SCEC hazard in effect.

The operational impact is that the ISC grids of the site that issued the SCEC hazard are not visible to other sites while the hazard is in effect.

The workaround is for the surrounding offices to add the SCS key code to their localconfig.py.

The greater issue here though that Mark Mathewson raised is that AWIPS in general should not drop the entire ISC grid it's receiving from another site just because it encounters a weather key that it doesn't understand.

Here is Mark Mathewson's reply to the listserv that has been condensed so that it fits in the Dimensions DR description buffer. The complete text is in the attached documents:

The current OB7.2 s/w will continue this issue. When ISC receives a "key" that it doesn't understand, instead of corrupting the database it will dump the grid on the floor. Unfortunately, it

stops the entire iscMosaic process rather than continuing on with the next grid or next weather element. When multiple weather elements are sent in one message via ISC, grids processed up to the offending one will be properly stored, everything else after that will be ignored.

We at GSD have thought a few times about making changes to this, to at least accept the other weather elements, and ideally, simply to ignore that particular "key" in that particular grid and continue processing. The priority never bubbled high enough and now the s/w is in Raytheon and Keane's domain.

a) iscMosaic should not stop processing other grids if it doesn't understand the weather key or discrete key in any particular grid, and

b) the "data" in the key should be dummied down until it is found acceptable so iscMosaic can continue.

Problem: Web page displaying config. files on central server doesn't show NTCD, NTCB. (DR 18717)

The problem is that the training center (NTCB, NTCD) can't see that their config's have been put on the central server at the AWIPS network at 165.92.25.138:90 where sites are supposed to be able to check.

I spoke with Jim Calkins and Paul Hershberg at MDL, and they were unsure who maintains that website.

The website is set up for the purpose of service backup, and since the training center is not configured for service backup, that may be the reason why their file is not visible on the website.

The issue is not that the file is not on the central server, it is there. It's just that it doesn't show up on the website.

Sam Beckman at the training center said that he had noticed that other national centers' configurations didn't show up on the website either.

Workaround. None.

Operational Impact. None.

Sam Beckman is at sam.beckman@noaa.gov, 816-880-9314 x238.

Problem: Data Montior: grid info pages for new OB7.2 grids show incorrect data set. (DR 18713)

On the grid data page of the Data Monitor, for each product in the data set listing, there is an "Info" Button, indicated by a Yellow Note icon, that contains specific information about that product. For products added in OB7.2 there is a typo such that on each information page, the Dataset is listed as MOSGuide, although these are not MOSGuide products. The html files requiring change are: AK216SREF.html, CONUS212SREF.html, GRID130RUC.html, LATLONRTGHRSSST.html, NDFDRTMA.html, PR243SREF.html, REG180OPCWave.html, REG181OPCWave.html, and REG182OPCWave.html

Problem: Unable to extend hazardous seas product. (DR 18702)

Site PQR reported that they could not extend the hazardous seas product (sw.y) in GFE for SEW while doing service backup for SEW.

The problem could not be replicated in testing or at other sites. The site wanted further investigation though, so a DR was opened.

Workaround. Site could end the product and issue a new one.

Problem: Missing max humidity time in climate is recorded as -32768, not 9999 at site GYX. (DR 18695)

Site GYX reported that the time of occurrence minimum and maximum daily humidity (max_rh_hour, min_rh_hour) for their climate station GYX (Gray, Maine) are being reported as -32768 instead of the proper value of 9999 for missing. It's not a particularly important problem, as the weather station at Gray doesn't report humidity in the first place. They just need the missing values to be reported correctly as 9999. I looked at their climate database back in January, and the -32768 values had been reported since early in 2006. I manually changed all of them to 9999. However, the next day, the max and min humidity were reported as -32768, so the problem still exists.

As of Mar. 7, KOKC and KSPS at OUN are also having the same problem. However, they actually report humidity, so it is a more serious problem for them.

Problem: Text editor locks up when word wrap is turned off. (DR 18691)

Site GRR reports that the text editor in AWIPS locks up when word wrap is turned off.

The POC at Grand Rapids is Wayne, (616) 949-5150.

They need to turn word wrap off when editing the daily climate report because its width is greater than the 69 character width in the text editor. When word wrap is on, the daily climate is displayed incorrectly because of the 69 character width limit.

I talked to Wayne later and he said that he found a workaround. He said that if he goes to options and sets wordwrap to 80 characters instead of 69, it works fine. He said that he would recommend just having the 'autowrap off' option removed from the text editor because it is not needed.

Problem: TextDB log file does not store the reading processing info. (DR 18690)

When executing the Failover_DX1toDX2_Database test case, writing to TextDB and reading from TextDB work fine. However, the TextDB log file does not store the reading processing information. Please see the test case (step 14) under /Workset AWIPS.WFOAOB8.1/Test/WFOTesting/Failover/ directory in Dimensions. The problem only exists on DX2. It works fine on DX1.

Problem: purgeProcess does not correctly recurse directories. (DR 18688)

Received a report the data in /data/fxa/point/ramos/Bad is not purging. There is currently over 5000 files in there when only 20 should be in there at one time. For some reason the purgeInfo.txt file in /data/fxa/nationalData is not removing this data.

Analysis shows that the problem is due the the "recursive" flag in the purgeInfo.txt entry for /data/fxa/point/ramos/.

Workaround. If /data/fxa/point/ramos/Bad is specified, the directory is purged. This is a hassle for sites ingesting ramos data or other kinds of data that are purged via a recursive scan.

Problem: Small enhancement request: for eastern region, amend Maps.py and MapFiles.py. (DR 18682)

From Paul Jendrowski at site RNK:

Title: ER change request to baseline GFE maps and provide local shapefiles with service backup

ER sites will be implementing the required changes as local overrides in the interim until the baseline is changed. The attached tar files contains code changes to Maps.py and MapFiles.py that implement the enhancements requested by ERH. The tar file also contains the installation documentation and tools that ER sites will use to implement the changes.

For any technical questions regarding this change request, please contact:

Paul Jendrowski
ITO WFO RNK
Blacksburg, VA
540-552-1613 x235
paul.jendrowski@noaa.gov

Problem: artsplay will not play some sound files. (DR 18678)

The Guardian application uses a command called "artsplay" to play sound files. However, some of the sound files do not play. The sound files are located in /awips/fxa/data/sounds. Of the files in this directory, these are the files which do not play:

beep.au
bugle.au
CrashCymbal.au
Explosion.au
HitMe.au
MetalAlarm.au
Passing_Train.au

The main issue here is not that these sound files are being used - but that they *could* be used. It is left to the user of the Guardian application to use sound files, and which to use.

Workaround: Refrain from using the sound files listed above.

Problem: Indentation off in daily climate (CLI) NWWS product output. (DR 18676)

Post OB7.2 there is an indentation error in the daily climate report for NWWS. The following line is indented one space from the margin. It shouldn't have any indentation:

WEATHER ITEM OBSERVED TIME RECORD YEAR NORMAL DEPARTURE LAST

It looks like this:

...THE WASHINGTON NATIONAL CLIMATE SUMMARY FOR FEBRUARY 21 2007...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1871 TO 2007

WEATHER ITEM OBSERVED TIME RECORD YEAR NORMAL DEPARTURE LAST
VALUE (LST) VALUE VALUE FROM YEAR
NORMAL

And it should look like this:

...THE WASHINGTON NATIONAL CLIMATE SUMMARY FOR FEBRUARY 21 2007...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1871 TO 2007

WEATHER ITEM OBSERVED TIME RECORD YEAR NORMAL DEPARTURE LAST
VALUE (LST) VALUE VALUE FROM YEAR
NORMAL

In addition, further down in the report, 'WIND (MPH)' is also indented one space and shouldn't be (this one is much less obvious than the 'WEATHER ITEM' one).

Problem: National Hurricane Center wants to run GFE as NHCW, not MFL. (DR 18673)

POC at NHC is Chris Juckins, christopher.juckins@noaa.gov.

Chris said that they currently use GFE, but they use Miami's configuration (MFL). He wants to be able generate coastal forecasts that say they are issued by NHCW, not MFL. I told him that I believe this is not a trivial problem, that it would be comparable to adding a new forecast office to get everything configured.

Problem: GFE: Formatter problem with ZFP wording. (DR 18670)

The alternate temp_trends method (which is baseline code, but commented out, out of the box) adds more checks and detail than the operational temp_trends method which makes it popular among NWS offices.

Problem: In the grids...

Current time is 1202am. Issuing an updated ZFP (Early Morning Update).

The alternate temp_trends method is in use, meaning it is uncommented and in an override somewhere (for purposes of testing, try placing in Patch_Overrides). Rising temperatures are expected overnight with strong south winds. However, the formatter returns "after midnight" wording even though it is already after midnight. The formatter should return either no timer phrase or a timer phrase that is further into the future.

Tonight:

Temperature (T) (12am): 25F

Temperature (T) (1am): 26F

Temperature (T) (2am): 27F

Temperature (T) (3am): 28F

Temperature (T) (4am): 29F

Temperature (T) (5am): 30F

The Baseline_ZFP returns this (with alternate temp_trends in Patch_Overrides):

.TONIGHT...LOW IN THE MID 20S. TEMPERATURE STEADY OR SLOWLY
RISING AFTER MIDNIGHT.

With the attached fix, it returns:

.TONIGHT...LOW IN THE MID 20S. TEMPERATURE STEADY OR SLOWLY
RISING THROUGH SUNRISE.

The problem is that len(tStats) should account for up to 6 hours of statistics if you are after midnight (or after noon in the case of falling temps in the daytime) to trigger the "through

sunrise" (or "through late afternoon") phrase. It otherwise works fine...it is only a problem for situations that are triggered and an update is issued between 1200am and 1259am (or 1200pm and 1259pm).

Problem: GFE: Formatter problem with ZFP snow accumulations. (DR 18668)

Background: The total_snow_phrase takes into account both forecast snowfall and snow that has already fallen (both through the SnowAmt element). Taking into account past snowfall was a recent enhancement to eliminate the problem of total snow amounts decreasing during the course of an event or during updates.

Problem: If, during an ongoing snow event, I have this in the grids...

Current time is 600pm. Issuing a routine ZFP (Afternoon). 2" of snow has already fallen. Another 2" of snow is expected tonight and tomorrow, so looking at storm totals of 4".

Past SnowAmt Today (12pm-6pm): 2" SnowAmt.

Tonight (6pm-6am): 80% PoP, Def S- (in Wx), 1" SnowAmt.

Tomorrow (6am-6pm): 80% PoP, Def S- (in Wx), 1" SnowAmt.

The Baseline_ZFP returns this:

.TONIGHT...SNOW. SNOW ACCUMULATION AROUND 1 INCH.

.TUESDAY...SNOW. SNOW ACCUMULATION AROUND 1 INCH. TOTAL SNOW ACCUMULATION AROUND 2 INCHES.

With the attached fix, it returns:

.TONIGHT...SNOW. SNOW ACCUMULATION AROUND 1 INCH.

.TUESDAY...SNOW. SNOW ACCUMULATION AROUND 1 INCH. TOTAL SNOW ACCUMULATION AROUND 4 INCHES.

Problem: POP Grids in GFE overwritten by GFS model data. (DR 18667)

The following is from Brian Curran at MAF:

He said that they often have a number of weather element groups. When they switch from one to another, or open a new group, very infrequently the POP data in the weather element group is overwritten by GFS model data. He has heard of it happening back at least to OB6. He said one thing that is weird about it is that it kept the same time-blocks as he had in his zones: He had 6-hourly zones out to day 4 and 12-hourly zones for days 5, 6, and 7. GFS data is in 6-hourly blocks all the way through day 7. But when his data was overwritten by GFS data, the GFS data was in 12-hourly blocks for days 5, 6, and 7 the way that his zones were already set up.

When it occurs, this is an annoying problem at the site because they have to create the grids all over again. However, it is difficult to reproduce.

There is no record of it occurring at any other sites except for MAF.

Problem: Extra '/' appears in AFD. (DR 18666)

OAX reports that an extra '/' appears after the forecaster number when only one forecaster number is present.

Problem: GFE: WWA block not removed from the previous AFD. (DR 18665)

OAX reports that the AFD does not remove the WWA block from the previous discussion.

Because of this, there are double \$\$ in the product, which can cause problems in automated reading of the products for some customers.

This DR was previously titled

"\$\$ not removed from previous discussion in AFD"

It was realized that this problem is really a part of the problem in DR 18630, and it will be fixed automatically when DR 18630 is fixed. I added the \$\$ issue to the text of DR 18630 - DR 18630 was canceled because it is a duplicate of this DR. Both issues will be fixed by this DR.

Problem: D2D: Changes needed for the display CHGHUR guidance. (DR 18656)

TPC will be changing the format of the WHXX01 Hurricane Guidance text product AWIPS ID CHGHUR). The /awips/fxa/bin/CHGplotter uses this product to plot the forecast locations for hurricanes in D2D. The changes to the product are as follows:

- Addition of the issuing office line and date/time line

- Revised disclaimer statement

- Addition of the BAMS model

- Elimination of the A98E and P91E models

- Left justification of product

Attached should be the format of the legacy product and separate document the final format.

Problem: ds entry in IGC_Process and other display logs. (DR 18655)

Many of the display logs including the IGC_Process display log show a PROBLEM message referring to the ds. I'm not sure what problems this is causing, but want to document it.

LOG-STATUS: Log file opened on host lx1-tbdw at Wed Feb 7 23:36:03 2007

IGC_Process 17085 1170891363.315542 23:36:03.315 EVENT: warnGen started

IGC_Process 17085 1170891466.170606 23:37:46.170 EVENT: Load mode for this load: Valid time seq

IGC_Process 17085 1170891466.174918 23:37:46.174 EVENT: Reading FFMP Basin accumulation inventory file.

IGC_Process 17085 1170891466.183310 23:37:46.183 PROBLEM: Cannot look up info on host ds: h_errno = 1

IGC_Process 17085 1170891466.183354 23:37:46.183 PROBLEM: Can't create an IPC target with invalid host: ds

Check the host entry in /etc/hosts.

IGC_Process 17085 1170891466.184175 23:37:46.184 PROBLEM: Cannot look up info on host ds: h_errno = 1

IGC_Process 17085 1170891466.184202 23:37:46.184 PROBLEM: Can't create an IPC target with invalid host: ds

Check the host entry in /etc/hosts.

MK: Updated Release Discovered to OB7.2 at request of originator.

Problem: WPR related scripts need be changed due to frame count. (DR 18649)

The Workstation Performance Ratings (WPR) scripts are affected by the changes of the frame count. The max number of frame count was changed from 32 to 64, thus the format of the frame count menu changed. The change affected the number of frames of products specified in scripts got loaded when scripts were invoked. When invoked, the number of frames loaded on D-2D is not same as specified in the scripts. This needs to be fixed so the workstation performance measurements could be measured consistently across builds.

Problem: Batchpst Not Utilizing All Available CurPC Data. (DR 18648)

The Batchpst program is not utilizing all available CurPC table precip data and therefore is returning the following message:

"INSUFFICIENT DATA IN CurPC table TO CALCULATE PPXX values".

The program named "ofsde" exports data from the Postgres IHFS database in a format that another program, "batchpst", can read and post to the fs5files (model database). One of the computations that "ofsde" performs is to calculate 6-hr and 24-hr PP (precipitation) data from PC (precipitation counter) data. This is not working as expected. In previous builds, if PC data had a timestamp other than 12Z (i.e., 1206Z, 1157Z, etc) it would not be used in computing PP totals. OB7.2 version of "ofsde" is supposed to be able to use precipitation counter data that falls within a specified window around 12Z.

All tokens have been properly set.

Problem: Guardian: Color application error makes it hard to correct typo. (DR 18642)

When an erroneous color name or octal color string is entered in the priorities background or foreground text box of the Guardian Configuration GUI, it is exceedingly hard to correct the typo. For example here is what happened to me: I typed FFFFFFF for white, but forgot the #

before the octal color string. Due to the typo, an application error dialog box appeared. The Guardian Configuration GUI is inoperable when this dialog box is active, so to correct the error the dialog box must be close. After closing the dialog box, the dialog box reappeared before I could correct my error. The dialog box would reappear in less then a second in some cases, which made it rather difficult to make the correction.

In addition to my case, Guardian had originally opened on the left monitor and I moved to the right monitor. I made my typo in the Guardian Config GUI on the right monitor, but this error message would pop-up on the left monitor. It was extremely difficult to close the error message, move the curser all the way to the right monitor, and make the correction before the error message popped-up again on the left monitor.

A screen capture of the Guardian Config GUI and the application error dialog box is attached.

Problem: Fog Monitor - first zoom from table does not work. (DR 18638)

A minor problem was found while running the Fog Monitor baseline tests on TBDW. When I try to zoom in on a zone from the table, the first time it doesn't zoom. If I select another zone it works, then go back to the first zone and it works. I can repeat this on TBDW and TBW4. The problem does not occur on NHDA, NHDW and TBW3.

Here's the log error message:

```
IGC_Process 21976 1170959937.605266 18:38:57.605 PROBLEM: The Zoom Re-Center coordinate is outside the display area.
```

```
IGC_Process 21976 1170959937.605374 18:38:57.605 EVENT: Sending message to Guardian: ANNOUNCER|The Zoom Re-Center coordinate is outside the display area.|2|LOCAL|lx2-tbdw|0
```

```
IGC_Process 21976 1170959937.605404 18:38:57.605 VERBOSE: Sending msg to CommsRouter. Target id = 0
```

```
IGC_Process 21976 1170959937.605478 18:38:57.605 DEBUG: The Zoom Re-Center coordinate is outside the display area.
```

```
zoomRecenterCode =-3
```

AWIPS_DR_18637 OB7.2 - GFE: Two FWS automated test cases fail While running GFE automated testing for the OB7.2 security patch baseline testing, Diana Ginocchi discovered that two of the FWS automated tests fail. The tests that fail are testFWS_9 and testFWS_10. The logs are attached.

Problem: GFE: Enable nonlinear thresholds for change in wind direction. (DR 18632)

MLB would like to use nonlinear thresholds which control the phrasing when wind changes direction. Currently the threshold is a constant, i.e., independent of wind speeds.

Problem: WarnGen - Unable to change primary cause in follow-up FLS. (DR 18627)

In the aerial flood statement template of Warngen...when choosing 'Primary cause other than rain' - None of the options below this field

are selectable.... (i.e. none of the fields associated with 'Primary cause other than rain')

Site went OB7.2 today....

In the above message from Dennis, it appears sites are confused that when they issue a follow-up areal flood product, a listing of primary cause is given. They believe they can adjust them, which they can't. The primary causes should be removed the menu in follow-up statements in the same way that they are removed from the original warning. The template code in the warning looks to see if VTEC is activated before listing the primary causes. A copy of the code follows.

```
<VAR | test=$$ACT_VAL!NEW.eq.NEW$$ACT_VAL! |value=radio
    |value=lock | var=PCAUSE_loc>
<VAR | test=$$VTEC_NOW!.eq.NO | value=hide | var=PCAUSE__show>
    {<PCAUSE>[lock a.eq.a]*** primary cause other than rain ***}
```

Problem: Remove obsolete WWA information from the WarnGen templates. (DR 18624)

An analysis need to be done on what parts of the Warngen templates were used for coordination with the WWA software. Once these parts have been identified and examination of any other uses of this code needs to be done. If they are no current operational AWIPS applications for these parts of the templates then they should be removed.

For example, the SST believes that the following section from the AUX_INFO part of the template is no longer being used.

```
|geo_descriptor=2 |wwa_type=4
|wx_hazard=Hydrology |specific_hazard=Flash Flood
```

Problem. FWS formatter crashes in specific case. (DR 18622)

The following is from Virgil Middendorf at BYZ, who was able to replicate the problem that occurred at MAF (POC Greg Jackson) and suggest a solution:

This was in the code that we put in to fix the single and double quote crash. Attached is the fix. Search maf.py for "if not findAgencyFlag:" You will find this in three places. It is the last two places where I added this condition before the single quote and double quote filtering is done on this varDict entry.

How to test....

1. Note the REQUESTING AGENCY in the STQ product. It was "PECOS VALLEY DISPATCH" for MAF.
2. In the FWS_ccc_Definition file, add an entry for "PECOS VALLEY DISPATCH" in the agencyList definition.
3. Run the FWS formatter. In the Agency: section on the second GUI, "PECOS VALLEY DISPATCH" should already be selected. There should not be an entry box for "Name of Agency if not listed..." in the second GUI.

Problem: AvnFPS Improve monitoring for aircraft takeoff minimums. (DR 18619)

Current flight category monitoring is skewed towards landing minimums when it should place more emphasis on take-off criteria.

Based on feedback from AFG (Fairbanks,AK) testing prototype flight category monitoring in AvnFPS. TAF amendments will be based on flight category in the updated NWSI 10-318.

This is an AWIPS Small Enhancement Request

Requirement approved by regional and headquarters aviation meteorologists.

Only AvnFPS software affected.

Development effort less than 10 hours.

All technical requirements met.

Problem: AvnFPS: Reorganize alert messages to forecasters w.r.t customer impacts. (DR 18618)

Request to

1. Move customer impacts to the bottom of alert messages.
2. Add threshold values to customer impacts.
3. Remove duplicate METAR/TAF summary lines from alerts.

This is feedback on flight category monitoring functionality tested by AFG (Fairbanks, AK). TAF admendments shall be done according to flight category in the new NWSI 10-318.

This is an AWIPS Small Enhancement.

Approved by regional and headquarters avaition meteorologists.

Only affects AvnFPS software.

Effort to implement and test <10 hours.

All technical considerations met.

Problem: AvnFPS shall use CIGNO when appropriate in alerts. (DR 18617)

AvnFPS alert messages use 'SKC' ('Clear Sky') when in fact FEW or SCT cloud layers are present. It is more proper to alert forecasters of CIGNO ('No ceiling') conditions in such situations.

TAF admendments shall be based on flight category in new revision of NWSI 10-813. This DR is based on feedback from AFG who did the prototype testing. This is a AWIPS Small Enhancement

Approved by regional and headquarter aviation meteorologists.

Only AvnFPS software affected.

Effort less than one hour.

All technical considerations met.

Problem: AvnFPS shall use SFC VIS when available for monitoring. (DR 18616)

The WFO aviation forecasters are responsible for forecasting surface (runway) visibility and are judged according to that parameter. Current FMH-1 guidance allows observers while composing the METAR to use tower visibility as the 'prevailing' visibility if it is worse than the runway visibility. AvnFPS METAR decoder should use SFC VIS whenever its available in the observation.

Approved by regional and headquarter aviation meteorologists in Jan 2007 conference.

Satisfies upcoming requirement in updated NWSI 10-813 to be released later this year.

Only AvnFPS affected by change.

Small change requiring less than 1 hour to implement.

Problem: AvnFPS shall be able to transmit TAFs with alphanumeric IDs. (DR 18614)

AvnFPS can correctly decode, monitor, and create TAFs with alphanumeric ID however its unable to transmit them.

This is a bug related DR, not an enhancement DR.

Problem: AvnFPS decoder need to conform to new ICAO format for TAFs. (DR 18613)

The United States Aviation Authority, the Federal Aviation Administration, FAA, and the International Civil Aviation Organization (ICAO) have agreed that the United States shall adopt date and time specifiers in TAF code beginning at some unspecified date in 2008. This requires that AvnFPS properly accept, decode and create TAFs in the new format. The exact day and time in 2008 of implementation of the TAF format change has not been decided yet by the FAA, however, AvnFPS software must be able to accept either format. It is unable to do this now.

Problem: /awips/fxa/data/scour.conf.dx missing trigger entry. (DR 18610)

The /data/fxa/trigger directory houses text files created by the TextDB_Server when a product stores for which there is a trigger set up. This directory is kept clean by an entry in the scour.conf.dx file. This entry has been removed in OB7.2. The entry which needs to be added, is as follows:

```
$FXA_DATA/trigger    1    *
```

This will remove everything older than 1 day from the directory.

Possible problems which may arise include performance degradation for any software which accesses this directory on a regular basis due to the large inode value of the directory when thousands of files build up there.

The NCF manually added this line after the OB7.2 install, and ENV added this line as part of the postinstall script for OB8.1.

Problem: WarnGen: Warning expiration wording method needs to be propagated. (DR 18592)

The use of the "abstime" and "nowtime" methodology that affects the expiration wording ("will expire" vs. "has expired") is currently used in the wwa_fflood_sta_county.preWWA, wwa_fflood_sta.preWWA, wwa_flood_adv_sta.preWWA, and wwa_flood_sta.preWWA followup templates. This same logic needs to be placed into the other followup templates wwa_mar_wx_sta.preWWA and wwa_svrwx_sta_county.preWWA as well.

Problem: WarnGen: pathcast wording is incorrect per directives. (DR 18591)

The NWS severe weather directives indicate using the phrase "LOCATIONS IMPACTED" instead of currently-used "AFFECTED LOCATIONS".

Problem: WarnGen: template name is confusing. (DR 18590)

The template name at the top of the wwa_flood_sta.preWWA template is Areal Flood Followup. This should be Areal Flood Warning Followup, to distinguish it from the Areal Flood Advisory Followup.

Problem: GFE: Temperature trends wording sometimes wrong in ZFP, FWF, and SAF. (DR 18581)

The following is copied from Virgil's manual discrepancy report that he submitted. He reported the bug during beta testing, but he told me he believes it may have begun occurring in OB5 or OB6, it's not something new.

There is a definition in the ZFP, FWF, and SAF called priorPeriod. In the baseline, it is set to 24 hours. This is used to sample the 24 hours before the start time of your forecast. If you run the morning issuance, then the start time is 12Z. Thus the 24 hour prior period sampled will be from 12Z yesterday to 12Z today. If you run the morning update issuance, then the start time is around 16Z. Thus the 24 hour prior period sampled will be from 16Z yesterday to 16Z today.

With trends of today's max temperature, the morning issuance prior period only captures yesterday's max temperature. However, when morning update issuance is executed, then BOTH today's and yesterday's max temperature is within the 24 hour prior period, so they are averaged before it is used by reportTrends.

This has been a flaw in the infrastructure for as long as I can remember. The bad news is that priorPeriod sampling is at a level of infrastructure that we can not access and override.

Three changes that Raytheon should make...

1. Have priorPeriod always end at 00Z and 12Z depending on the issuance.
2. Sample priorPeriod using a 1 hour resolution instead of a 24 hour resolution.
3. Add sampling for preUpdatePeriod, so phrases have access to hourly temperature data between 12Z and the update time of the product.

Possible Workaround. How about creating a new grids called "prevMaxT" and "prevMinT"? So when you run a supertool, these grids will be populated with the previous MaxT and MinT grids. You then can point reportTrends to use this grid to calculate prevStats.

Problem: GFE: FWS 1 hourly sky cover table values are always CDY. (DR 18578)

To duplicate this problem, ensure the following in the FWS_??_Definition file...

1. Set the Sky entry of elementFormatDict to "alpha."
2. Ensure that tabularResolutionDict includes a 1 in the list for each period.

Now run the formatter. In the second gui, select Tabular Only for the type of forecast. Check all of the SKY/WEATHER boxes and all of the "1" Tab Hrs settings.

You should see "CDY" for all times in the sky cover row.

Solution. In the FWS_Overrides module, there is a subroutine called _sky_value. There is one "break" command in the subroutine. Move the break command over one indent to the left.

Problem: GFE VTEC Active Table UFN Hazards not purged. (DR 18567)

Found in testing Baseline_GFE_tp033_3360_V2 test case.

The GFE VTEC Active Table (AT) contains hydro hazards issued until further notice (UFN). These products have no defined ending time. In OB7.2, these products should be purged from the AT after 14 days. These products are not getting purged. The source code responsible for this is ./headline/VTECtableSqueeze.py.

From Shannon White:

"It is actually a major issue as we are coming up on flood season and these entires can really clog up the GHG monitor. All sites will have point-specific H-VTEC active later this spring, so we will see an increase in the number of these UFN river floods."

The UFN products can be found by issuing the /awips/GFESuite/primary/bin/dumpAT command at an OB7.2 site (RNK, LUB, BCQ) or on an OB8.1 testbed (NHDA, TBW3). The entries look like this:

Vtec: /X.EXT.KRNK.FL.W.0003.060627T0300Z-000000T0000Z/

Hdln: ????

Start: Tue Jun 27 03:00:00 2006 1151377200.0 Action: EXT Pil: FLW

End: Tue Jan 19 03:14:07 2038 2147483647.0 UFN: 1

Purge: Mon Jun 26 23:24:00 2006 1151364240.0

Issue: Mon Jun 26 22:38:00 2006 1151361480.0

Phen: FL Sig: W Office: KRNK Etn: 0003 Seg: 1 Key: FL.W

Zone: ['VAC009', 'VAC019']

Problem: WarnGen: incorrect grammar used in warning product. (DR 18565)

It is very common for WarnGen to create text products with bad grammar like the following example: "ABOUT NEAR SPRINGFIELD." It seems to occur about 50-75% of the time.

Problem: Some radar code uses an incorrect leap year calculation. (DR 18556)

Radar ASM 1/19/2007 According to David Friedman:

"For each of the areas D-2D, LDAD, Radar, and WarnGen, we have found no DST dependencies that strictly match your criteria. However, I would like to document some issues that we did find for the sake of due diligence: Some radar code uses an incorrect leap year calculation. This code may be unused."

Problem: Provide an adequate AWIPS environment for BASH/KSH login shell users. This is a small enhancement request DR from RHA. (DR 18547)

RFCs have used /usr/bin/sh as the login shell for their users since the initial AWIPS build as RFC development and operations in the pre-AWIPS era was based on that shell (which typically translated into the Korn shell, ksh). Based on OB7.2 Pre-Integration Testing (PIT), MARFC discovered the environment provided for that login shell was incomplete (note that /usr/bin/sh links to the "bash" on OB7.2; also note the bash and ksh are very similar and proceed through similar sequences for login initiation). The symptoms were that the "get_apps_defaults" system failed and AWIPS applications did not fire off as exhibited by the inability to run D2D and other baseline applications accessed from the AWIPS appLauncher menu.

A statement previously inserted into the /etc/profile file for all AWIPS builds was missing. The line:

```
./awips/hydroapps/lx/public/bin/awips.profile
```

has been used to establish the proper environment for RFC applications up to and including OB7.1. The addition of the above line of code to /etc/profile during OB7.2 PIT created the proper environment for RFC application execution.

The functionality provided by the script /awips/fxa/readenv.sh being executed in the login sequence for the /usr/bin/sh login shell is needed. This script is equivalent to the readenv.csh script in the same directory that is "sourced" within the "csh" login sequence for establishing an AWIPS-compatible environment. This sequence for the "csh" ensures the proper environment is established for executing baseline AWIPS applications while working in the "csh". Looking at the contents of the user "fxa" home directory, you can see readenv.csh is "sourced" via execution of the .cshrc file located there (sourcing of the .cshrc file in a user's home directory is part of the "csh" login sequence). The functional equivalent of ~fxa/.cshrc needs to be implemented in the /usr/bin/sh login sequence.

Problem: Decoding of a Few POES Soundings Fails. (DR 18544)

The AWIPS BUFR decoder for POES Soundings reports that it fails to decode several of the raw BUFR messages each day. A typical log entry is below. This means that POES soundings for several POES sounding sites will not be available to the WFOs each day.

NESDIS believes that the messages that cannot be decoded are the first in the collective from which the message was extracted. We cannot confirm or deny their theory.

The messages the operational decoder cannot decode are successfully decoded by the AWIPS test BUFR decoder.

Bill Mattison suspects this problem will be extremely difficult to diagnose, so a few manweeks of effort are likely to be needed for this DR. Some assistance (time) from NESDIS, the Raytheon people across the street, and maybe Wilson Fong's group downstairs will also likely be required.

=====

```
03:33:24.515 POESBufDecoder.C EVENT: NCF_ENTRY [1/1] =
IUTX01KNES.24033324.481: 865 bytes
```

```
03:33:24.517 BufDecoder.C EVENT: Message is in standard format. Subsets: 1
```

```
03:33:24.517 BufDecoder.C PROBLEM: Failed to decode Section 4
```

```
03:33:24.517 POESBufDecoder.C EVENT:
/data/fxa/ispan/bufr/POESSoundings/IUTX01KNES.24033324.481
```

```
03:33:24.538 POESBufDecoder.C EVENT: Unable to parse
/data/fxa/ispan/bufr/POESSoundings/IUTX01KNES.24033324.481, renamed to
/data/fxa/ispan/badPOESBuf/IUTX01KNES.24033324.481
```

Problem: DHM log file directory for JVM not specified. (DR 18536)

When JVM is loaded by NWSRFS, the log files (of the form *.log) are created in the user's current working directory when any of the programs abort abnormally. This means that log files can be created in different places, depending on how the user runs the program. Furthermore

these log files are not in directories which are routinely purged and so could build up over time. A simple solution would be to specify the log file directory when JVM is invoked. The directory should be one used by other hydro apps, such as the ofs output directory, which is routinely purged.

Related to this, the error message displayed by Java "Hot Spot" should be improved to indicate which program has been aborted.

Problem. MAKE changes to accommodate GUAM time zone (Ref. 18635). (DR 18832)

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"

Problem. SNOW: Mesonet hourly precip error. (DR 18497)

Trouble ticket was called in indicating that mesonet hourly precip data were 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. Submitted as an OB7.2.1 candidate.

OHD would like to have the /rfc_arc/bin/ofsshef/ subdirectory and everything below it removed from Dimensions in the OB7.2 RAX workset (HYDRO-AXOB7.2).

The RFCs will be notified via email to remove or rename their /rfc_arc/bin/ofsshef/ subdirectory (if it exists) prior to installing the OB7.2 software.

There's a new executable file called ofsshef in the /rfc_arc/bin/ directory with the same name as the subdirectory ofsshef. While Dimensions allows us to do that, Linux in the run-time environment won't. OHD would like to have the /rfc_arc/bin/ofsshef/ subdirectory and everything below it removed from Dimensions in the OB7.2 RAX workset (HYDRO-AXOB7.2). The RFCs will be notified via email to remove or rename their /rfc_arc/bin/ofsshef/ subdirectory (if it exists) prior to installing the OB7.2 software.

Problem. D2D Clutter Filter Control locks up large pane. (DR 18492)

Selecting kxxx > Derived > Clutter Filter Control puts some text on the screen, but nothing can be done following it.

Workaround. From the menu bar, select Options > Restart dead panes.

Problem. RestartIngest GUI has an obsolete process selectable. (DR 18491)

Since dial radars are no longer using wfoApi processes, the "Reset Board 1 (dial radars)" button should be removed from the RestartIngest GUI. The files called by what remains of the script (/opt/freeway/bin/icp_reset and /awips/fxa/bin/stop.sh) don't exist on the dx boxes.

Problem. NCF archive server does not support smtp (OB7.2 baseline test fails). (DR 18490) (HELD)

During OB7.2 SyAT testing the test case Baseline_NCFArchive_1.3.4.10 failed. The failure is on steps 24-36. Using the NCF Archive GUI, a request is sent out and the request goes to the archive server. The archive server shows a response with results, but the response is not received back at the NCF Archive GUI.

Problem. AvnFPS – occurence instead of occurrence. (DR 18460) (HELD)

The word *occurence* should be spelled with two r's as occurrence. The word spelling of *occurence* is on the righthand panel of CeilingVisDist and CeilingTrend and should be replaced with the spelling as *occurrence*. The user's manual also will need the replaced word as *occurrence* for the CeilingVisDist and CeilingTrend sections.

Problem. Edit IPFS build script command to point to Dimensions 9 server. (DR 18459)

The build script command 'bc-preserve' must be modified to point to the Dimensions 9 server instead of the obsolete PVCS Dimensions 7.2 server.

Problem. User ldad processes remain running after px2apps halt. (DR 18482)

The following, user ldad processes remain running after px2apps halt

```
/awips/ldad/bin/listener  
/awips/ldad/bin/watchDogInternal.sh  
/awips/ldad/bin/pollForData.pl
```

Problem. Shortcut to TextWS spell checker does not work. (DR 18277)

The Ctrl+F1 keyboard shortcut that is supposed to start the spell checker in TextWS does not work.

There is probably a global shortcut that is overriding TextWS.

Matt Kensey 12/14 - the spell checker is available from the menu.

The Ctrl+F1 keyboard shortcut that is supposed to start the spell checker in TextWS does not work.

Problem. No data inventory is available for SREF products (est. avail late Nov. 2006). (DR 18133)

DCS 3330 failed due to unavailable data in the inventory for SREF products. Also, the configuration files that specified on the DCS documentations needs to be updated before install and testing.

Problem. DCS 3318- Polar Satellite Microwave Sounder products not available on SBN (est avail mid-Dec. 2006). (DR 18132)

No Polar Satellite Microwave Sounder products are available on TBW3 or TBDW. Data are not available on the SBN.

Problem. DCS 3321 failed - No data inventory is available for RTMA layer Cloud Cover (estimated November 2006). (DR 18131)

DCS 3321 failed due to unavailable data in the inventory for layer cloud cover. Also, the configuration files that specified on the DCS documentations needs to be updated before install and testing.

Problem. DCS 3335 failed - No data inventory is available for RTG_SST_HR_Analysis surface temp. (Est. avail Dec. 2006). (DR 18127)

DCS 3335 failed due to unavailable data in the inventory for RTG_SST_HR_Analysis surface temperature. Also, the configuration files that specified on the DCS documentations needs to be updated before install and testing.

Problem. DCS 3337 failed - No data inventory are for NAM12 surface and column max reflectivities. (DR 18126)

DCS 3337 (WRF) failed due to unavailable data in the inventory for NAM12 surface reflectivity and column max reflectivity. Also, the configuration files specified on the DCS documentation need to be updated before install and testing.

Problem. SREF Grids not available. (DR 18125)

No SREF (Short Range Ensemble Forecast) grids are available on TBW3 or TBDW. Data are probably not available on the SBN.

Problem. RUC13 info page missing from system monitor (planned data avail. Dec. 2006). (DR 18113)

The RUC13 information page is missing from the AWIPS System Monitor HTML documents folder. <http://px1f/infoPages/GRID130RUC13.html> is not found.

Problem. No data inventory available for OPCWave-W-ATL. (DR 18107)

Step 6 - No data inventory is available for OPCWave-W-ATL.

Step 11- No data inventory is available for OPCWave-NE-PAC and OPCWave-TE-PAC.

Problem. SCAN Table blinks at irregular intervals. (DR 18456) (HELD)

The blinking alarms in the SCAN Table will often blink at different rates. The SCAN Table once loaded will blink normally, but after an update or two it will be observed to flash yellow very quickly. The SCAN table always blinked.

Problem. Product Maker sources are incorrect. (DR 17613)

During OB7.2 PIT, Harry Gerapetritis reported that Product Maker sources are incorrect (AVN, MRF, Eta) and that it apparently does not retrieve data from their replacements, GFS and NAM. (Due to this lack of success to access data, this would not be a duplicate of DR13530.)

Problem. blank line at top of History list. (DR 17612)

During OB7.2 PIT, Harry Gerapetritis reported that there is a blank line at the top of the History List whenever the screen is cleared or a blank pane is swapped in. The line fills when products are displayed.

Problem. sendEnvironData.csh not getting published. (DR 17584)

sendEnvironData.csh needs to be in dataIngest/Makefile to get published to bin for use on dx2.

Problem. Maps > Sounding Locations menu should include GOES. (DR 17568)

On D-2D, the Maps menu now includes a Sounding Locations pull-right. Immediately following is GOES Sounding Locations, which should be moved into that menu. This requires a "no-minute" fix in nationalData/backgroundMenus.txt.

Problem. DHM product button keys needs to match depictable keys. (DR 17542)

Due to insertion of entries in gridSourceTable.template, the depictable keys used in productButtonInfo.txt no longer match the DHM grids they represented. Those depictable keys need to be replaced with the correct ones.

Problem. Contours for new High Resolution SST product do not initially appear on N. Hemis scale. (DR 17523)

The High Resolution Sea Surface Temperature (SST) product slated for OB7.2 is set to display at all AWIPS scales. When displayed at the Northern Hemisphere scale, the contours do not appear until the user zooms in several times (four). The user can create a color image of the product at this scale, but not the contours. This is not a problem at CONUS or higher scales.

Problem. SEC: Make National WSR-88D RPS lists. (DR 17545)

National Dataset Files /awips/fxa/data/localization/nationalData/rps-RPGOP-tcp.clear-air and /awips/fxa/data/localization/nationalData/rps-RPGOP-tcp.storm contain WSR-88D radar products that are added to a sites RPS list in order to support the central collection and distribution of radar products. There are also a few products that are requested by cron jobs periodically via One-Time-Requests(OTR). The file prodList.txt contains the full set of WSR-88D radar products which are designated for central collection along with its product category

and partial WMO ID. These two files must be updated whenever products are added or removed from the central collection of radar products. The RPS list files are not currently national dataset files; however, the prodList.txt is. The national RPS lists should be made National Dataset Files so that future changes can be quickly and efficiently fielded on a cycle independent of AWIPS software deployments. Updates to this file should be centrally maintained because all sites should be running with the same file.

Problem. Some messages being sent to Guardian have line-returns at the end of the text Guardian will display the text messages it receives as it receives them. (DR 17658)

If there is a return line in the text, it will yield a Guardian text line that shows parts of each line of text, but not both, because Guardian was designed to use minimal space and will not use a text line that is 2 lines tall. Guardian already has a sample feature to show the full text, but some messages Guardian receives have a line-return that they should not have -- either at the end of the text or as an unnecessary separator. This DR was found during PIT, but the offending messages were not recorded; thus we don't know which application is sending the messages. This is likely not a Guardian DR, but I do not remember what the CI of WF was changed to. Here is an example bit of text message: "V Not Gen RPS" and then some numbers that change from message to message. Whatever application is sending these should remove the trailing newline character.

Problem. GFE DFC legend font too small. (DR 17641)

At the OB7.2 PIT, Harry Gerapetritis reported that the legends in the upper right corner of the GFE Daily Forecast Critique frame are too small to read.

Problem. RFC QPE end-to-end failing (DR 17893)

The RFC QPE grids are sent as WMO products and sent to WFOs, for subsequent display in D2D. This is done by a series of steps/operations. At the WFO, there is a missing call to an AWIPS processing script and some directories are missing.

Problem. Netmetrix needs to be replaced with MPLS. (DR 17860)

With the DS decommissioning in OB7.2, the Netmetrix needs to be replaced with the MPLS system. The Netmetrix, while not running on the DSs, uses them to communicate with the NCF.

Problem. acq_goesdesc is out-of-date. (DR 17819)

"/awips/ops/bin/acq_goesdesc" is out of date. It fails to report the gini header values for satellite latitude, longitude, and altitude. The source is probably in workset NCF-COMMS-OBx, in directory dev->develop->src->co->acq->nesdis_dh.

Problem. Modify all scripts used to shutdown services at mhs servers (for SMTP version). (DR 17810)

Most of the stop versions of scripts on MHS servers are to be modified as Enterprise Linux 4.0 lists process details in a different manner than HP version. So scripts are to be appropriately modified to meet the requirements.

Problem. LDAD scheduler not retrieving gauge data on TBW3. (DR 17787)

This DR may be in reference to 17316, "OB7.2 LDAD gauge data collection fails (ref OB7.1 DR 17298)." There is also a DR written for the issue with properly configuring the xyplex terminal to this facility - 17626 "Xyplex terminal server and firewall configuration needed on TBDR, TBDW, and TBW4." When making a request for river gauge, the request times out.

Problem. setupAwipsUser.sh - fix for NIS change. (DR 17785)

The NIS master server changed from DS1 to DX1. The setupAwipsUser.sh script needs to be changes to reflect that when it pushes out the NIS maps.

Problem. Force ypinit to enter ypservers. (DR 18058)

During the NIS conversion in the ypinit phase, the user is prompted to enter the names for the ypservers (dx1-site dx2-site dx3-site dx4-site). If the ypservers were entered for the user, there would be no chance of the user making a typo entering the server names. Also, the script would not stop and wait for user input.

Problem. NIS migration script needs to restart ypbind on RP_SERVERS (RFCs only). (DR 18057)

The NIS migration script needs a slight modification – there is a need to add "RP_SERVERS" to the list of machines on which to restart ypbind as one of the final steps in the script. This is a minor issue and relates to RFCs only. This should be fixed before installing OB7.2 in any more RFCs.

Problem. Rebuild of AWIPS MIB for OB7.2. (DR 18065)

Updated build of AWIPS MIB for OB7.2 required.

Problem. ESPADP adjusted conditional simulation values. (DR 18447)

When running ESPADP in the interactive mode, the "exceedance quantiles" column is displayed in the exceedance probabilities section i.e., 0.90, 0.75, etc for "adjusted conditional simulated". There is a need to include this information in the output file when ESPADP is run in batch mode.

Problem. SNOW:Clicking on a station doesn't cause D2D to center and zoom on that station. (DR 18479)

When clicking on a station ID in the Station Table, D2D does not perform the zoom and re-center on that station.

3.0 OB7.1

Problem: High elevations are not plotted in SPG Unit Status graphic. (DR 19165)

Mike Istok noticed a problem in the TDWR SPG Unit Status graphic: Not all the elevations for VCP80 and VCP90 are plotted.

Error messages are found in IGC_Process log:

```
IGC_Process 21133 1181748924.532061 15:35:24.532 PROBLEM: Invalid Elevation: 257
```

Problem: Small Enhancement: Site Specific create crest forecasts. (DR 18988)

The Site Specific application allows the user to create a forecast hydrograph and write the forecast data to the database, where it is then available to be used by the Riverpro application. When writing the forecast data to the database, the Site Specific application does not explicitly identify a forecast crest value.

Site Specific should identify the maximum stage or discharge value in the forecast time series as the forecast crest by associating an X extremum value with the maximum data value when writing the forecast values to the database.

Problem: Improve performance of DMD display on volume scan change (OB8.1 DR 18355). (DR 18961)

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.

Problem: GFE ISC fails when SMTP turned on (Ref GFE-ISC DR 18499). (DR 18933)

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 be 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/<date>/iscd_dx1-<site>. If iscd is run as root, the file will be owned by root. The log should be deleted so when iscd runs as ifps, it can write to it's 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-<site>. After SMTP is turned on, mhs points to dx1-<site>.

Problem: WarnGen: part of county not included in partial cancellation (OB8.1 18764). (DR 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. There can be multiple warnings 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 followup templates in OB8.1 for the implementation of storm-based warnings.

Problem: OB7.x LAPS Installed In Wrong Directory. (DR 18883)

A site reported that they had two laps bin directories:

```
/awips/laps/bin
/awips/laps/bin/bin
```

The executables in /awips/laps/bin/bin were time-stamped more recently than those in /awips/laps/bin. It was found that OB7.1 and OB7.2 installed new LAPS executables into the incorrect directories. This has already been fixed in OB8.1.

Operational Impact. None, as there were no DR fixes in OB7.1 or OB7.2 for LAPS. Sites have not reported any problems using LAPS.

Workaround. Copy all files from /awips/laps/bin/bin to /awips/laps/bin on px1 and px2, then run a laps localization on each server.

Problem: Guam GFE Hazard_MWS.py template error. (DR 18802)

The following error is displayed when creating a MWS hazard:

```
"COMBINATION FILE NOT FOUND: EDITAREAS_MARINEZONES_GUM"
```

The error message is due to a Hazard_MWS.py template error that only affects GUM because they have two PILs, _MY and _PQ, for their MWS product. The site would currently experience this problem. They appear to not generate this product using the GFE or they would have reported the problem. Therefore, the DR is written up as a minor.

Problem: Problem accessing data in ISC grids at AFC. (DR 18762)

The problem is that AFC can see the ISC grids from AFG and AJK, they just do not know if they are current or old (no timestamps), and they can't smooth them. If they mouse over them, no point data is available, it's like GFE does not know they are there even though they are looking at them right there.

The problem began in late September after the last 6.1.x upgrade.

It may be due to AFC's setup as a dual domain and require a code change.

The operational significance is that coordinating with surrounding offices and smoothing grids at the CWA boundaries is made more difficult.

The workaround for not being able to smooth AFG's and AJK's grids where they border AFC's domain is to have AFG or AJK do it.

The workaround for not knowing how old the ISC grids are is to call the neighboring sites, but this is cumbersome since it happens every day and there are so many zones.

Problem: GFE: GHG Headline Error. (DR 18760)

Watch/Warning/Advisory headline and issuance line generated by GHG for events that end at 6 PM local time on the current day are being formatted as:

```
...WINTER WEATHER ADVISORY REMAINS IN EFFECT UNTIL 6 PM CST THIS  
AFTERNOON...
```

```
A WINTER WEATHER ADVISORY REMAINS IN EFFECT UNTIL 6 PM CST THIS
```

AFTERNOON.

Per directive 10-503, appendix C section 2, the time phrases should be "6 PM CST THIS EVENING".

Upon investigation, I found the error is in the TextUtility:

DiscretePhrases, in the timingWordTableEXPLICIT definition. In the sameDay=[section, the line:

(12*HR + 1 , 18*HR, "This Afternoon"),

needs to be changed to:

(12*HR + 1 , 18*HR-1, "This Afternoon")

TT 278769 from TOP refers to above TT.

Problem: AWIPS 1971-2000 Average annual temperature 0.1 diff. from NCDC. (DR 18716)

Site ABR reported that the annual mean temperature from the annual climate report is off by 0.1 degrees for Pierre. In AWIPS it says the mean temp for PIR is 47.6. In the NCDC normals, it says it's 47.5. This is the only example that they can find now, but they said that it has happened before that a monthly or annual mean temp. has been 0.1 degrees off from the 1971-2000 means from NCDC.

Darnell Early and I looked at the calculations for mean temperatures in the climate program, and it looked like they were calculated correctly. So we may need some coordination with NCDC if we want this fixed.

Problem: Locate cron no longer running. (DR 18715)

Prior to the OB7.1, a cron associated with the locate command was enabled. This cron updated the locate database on a regular basis, allowing files to be found using the locate command. If this update cron is not run, then the file database will be out of date, and you will not be able to find recent files. This problem will impact all sites, but it is unknown what effect this has on AWIPS, considering no operational site has reported this as a problem. I believe the function is mainly a convenience, but Randy at the NTC thought it important.

To fix this, edit /etc/updatedb.conf and change the "DAILY_UPDATE" setting to "yes".

Problem: LSR: Spotter shows up as 1N instead of 1SE of a city. (DR 18704)

Site UNR reported that in LSR, a spotter showed up in the report as being 1N of Ladner even though they are actually 1 SE of Ladner. Oleg Uskov and I did some investigation and found that the lat/lon for Ladner looks correct, as does the lat/lon for the spotter that is 1SE of Ladner. This particular spotter is HR15.

We believe there is a problem with the calculation or rounding of the direction when spotters' distances are a couple miles or less from a city, although it could be something else that's causing it.

The workaround is when the report is generated to manually change the direction the spotter is from their city.

Problem: Extended RFC QPF data all zeros. (DR 18701)

The POC for this DR is Fred McMullen at site RLX (Charleston, SC, (304) 746-0188).

The OH RFC (TIR) typically issues QPF out 24hours. In situations when high water is possible they will do anywhere between 36-72hr QPF. This is when the problem surfaces. When they issue extended QPF /36hrs and beyond/ all of the grids that arrive in GFE are 0.00. Fred talked to a person at the NERFC and they were able to duplicate the problem.

It's not clear if the grids are being generated incorrectly by the RFC or are being read incorrectly by GFE. OHRFC was contacted by NCF, and they said that RLX is the only site in their area that uses this product.

The operational significance is that the site does not have the benefit of the extended QPF forecasts issued by the HPC at times when those forecasts are issued.

There is no known workaround for this issue.

Problem: Climate not displaying average sky cover in monthly climate summary (CLM). (DR 18693)

Site TBW reported that the AVERAGE SKY COVER under the SKY COVER heading in the CLM (monthly climate summary) is not listed. They have been adding it manually. The problem has been occurring for quite a while now, but they believe it started after they installed OB7.1 I looked at monthly climate summaries for other sites around the country, and noticed that at each site older CLM products from several months ago had the AVERAGE SKY COVER listed, but the newer products are missing it.

There is no problem with the average sky cover in the daily climate reports.

Problem: Modify HydroGen to Create a Second XML File. (DR 18686)

The current HydroGen application is executed once an hour as part of the baseline DX1 cron at each WFO. HydroGen retrieves observed and forecast river information as well as certain parametric information about the river location. For each river location, this information is written to a file which is formatted in the Extensible Markup Language (XML). These XML-formatted files are then copied, via an rsynch process, from the DX1 machine to the LDAD server, and then from the LDAD server to the appropriate regional web server where the XML file contents are used to create graphical hydrographs available for viewing via NWS web pages.

The NWS is currently engaged in a Web consolidation activity. The current, individual regional web farms—which operate as independent entities—are being consolidated into 3 identical web farms which will provide redundancy and load balancing in order to improve reliability,

performance, and resource sharing. In order to support this activity, HydroGen must be modified to create smaller files and enable dissemination of these XML-formatted files with proper WMO and AWIPS headers. Specifically:

1. HydroGen will generate a second file, formatted in XML, which contains the following information:
 - a. River observations which have been received and posted to the database since the last execution.
 - b. River observations for which the data value has changed since the last execution.
 - c. Forecast data which have been received and posted to the database since the last execution.
 - d. Forecast data for which the data value has changed since the last execution.
2. The user will be able to define a period of time over which the application will search for changed observed and/or forecast data values.
3. HydroGen will support the dissemination of a product which includes the proper WMO Header and AWIPS product id. Product dissemination will be supported on both an ad-hoc and a scheduled basis.

Problem: Mozilla cannot resolve PHP files. (DR 18657)

The file type php is not recognized by Mozilla. TAR is grabbing php files from external sources and bringing them onto px1. Attempts to bring up the file gives an error:

"The file php is of the type application/x-php and mozilla does not know how to handle this file type"

It is possible there are errors in /etc/httpd/conf/httpd.conf or /etc/httpd/conf.d/php.conf.

Problem: AF: Provide a way for MHS to recover from file synchronizations errors. (DR 18654)

This occurs on all MHS servers at the NCF, so it involves both HP-UX (ms1-6) and RHEL 3 (mh1-6). This fix will be implemented post SMTP, so it will not be made on the HP-UX machines.

There is a workaround, which is to execute the service backup request again. These rsync'd files are not updated very frequently, so it will most likely function properly on the next attempt.

The proposed solution is to modify the msg_send command to allow the calling program to detect the I/O error and take appropriate action. This cannot be done currently since msg_send simply returns 0 for success, 1 for error. To maintain backward compatibility with existing applications, a new command line option would be added to allow it to return extended exit status codes. This would keep existing programs functioning as expected but also allow programs that need additional information about failures, such as IFPS service backup, to obtain it. Once this change is complete, a shell script for the IFPS service backup requests can be

created to retry on I/O errors. This new script would be called from the MHS rev_handler.tbl file on the NCF MHS servers. No changes would be needed at the sites.

Problem: ssh hangs after running AWIPS startup scripts. (DR 18653)

Several AWIPS start scripts do not "close the descriptor" when they finish. This is an issue with ssh because the way an ssh connection knows when to exit is when it receives an "EOF" (end-of-file) marker from the pipes connecting to the stdout and stderr of the process started.

This is a problem in Linux because when you start a process from the shell it will inherit references to the shell's stdout/stderr (aka standard streams). Unless this is prevented, or the process closes these pipes itself, it will cause sshd to wait indefinitely because it will not see an EOF on the pipe connecting the process to the shell because it is also tied into the background process, i.e. one pipe for the ssh & the process.

Some ways around this -- unfortunately in AWIPS user fxa uses tcsh and there is no way around it globally in tcsh...for bash you can enter the following into your .bashrc profile: shopt huponexit on -- the easiest way around this, especially if done via a script is to redirect the stderr/stdout:

```
startIngest.dx2 < /dev/null >& /dev/null
```

Operational Impact. Little as the processes start> It could be a potential issue for crons or other start scripts that do not have a stderr/stdout redirect specified.

Problem: /etc/ntp/step-tickers references old as1/as2-ancf. (DR 18650)

Appears that the default settings for the step-tickers was changed in Spring2005 at all sites to reference as1/as2 as the boot sync host. /etc/ntp/step-tickers is read in on boot from /etc/init.d/ntpd which checks to see if the file exists and is non-zero in size. If both are satisfied ntpd reads in the file and uses the hosts listed to set the local box time. If the file is missing or ntpd cannot reach the hosts listed in the file it will use the CMOS (internal) clock on the device to set the time.

The problem is if the internal clock is off by more than 1024 seconds, or approx. 17 days, then ntp will never get the device in sync with the ntp server (dx1f)...and the time on that box will be different than the rest of the nodes at the site.

/etc/ntp/step-tickers.bak exists and has the correct entries...a simple mv of this file into the active will correct the problem.

Possible Operational Impact. None, if the CMOS time is current on each device. If the CMOS time is off greatly, this will cause system processes to fail.

Problem: Would like change to wording in XXXAQYZZZ product. (DR 18629)

From Mike Dion at NWS Headquarters. He wants a change made to AWIPS:

A new baseline formatter would be added to AWIPS.

XXXAQIZZZ would be the PIL of the product. The WMO Header is FKUS7

KXXX.

The formatter should have wording that says Relayed from National Weather Service Office in City, State", not "From National Weather Service Office in City, State"

2/20/07 Matt Howard: Updated DR per email from Shannon White. Changed product to AQI from AQY and added the wording that it would be a new baseline formatter as there is currently not one to create this product.

Problem: Enhancement DR for VTEC. (DR 18628)

WFOs need the ability to select a "AS.O" VTEC product type.

This is for a new Air Stagnation Outlook that will be issued under the NPW AWIPS ID. Note: the VTEC code "AS.O" does not currently exist.

Problem: Add station elevation to point forecast matrices (PFMs). (DR 18626)

Add Station Elevation to PFMs. By specifying elevation, users can better understand the forecast values within the PFM products.

This is especially useful in areas of complex terrain where sites that are adjacent to each other may be located at significantly different heights.

Problem: Forecast matrices need to be in UTC instead of local time. (DR 18625)

Generation of Point Forecast Matrices (PFM) and Area Forecast Matrices (AFM) with respect to a UTC time label as opposed to a Local Time label.* This modification is important to properly align 12-hr Probability of Precipitation (PoP), Quantitative Precipitation Forecast (QPF) and Snow Amount grids with model guidance and the National Digital Forecast Database (NDFD), which both of which use Coordinated Universal Time (UTC). Satisfying this need will relieve the necessity for hourly grid population in order to ensure local time data is available on a standard UTC hour (i.e., 0,3,6,9,12,18,21).

Problem: format_climate words yearly snowfall in a confusing manner. (DR 18623)

For many years, the WFOs have been getting improper wording in on our NWR script for snow season. It will consistently say snow for the year to date. This is very confusing for our users...because the year that it is referring to is the July 1st through June 30th year (which is correct for snow) and not the calendar year. So we would like the wording to be either changed to "snowfall since July 1st" or "seasonal snowfall".

Problem: GFE Small enhancement request: Smart tool updates. (DR 18621)

Small enhancement request:

The following was called in by Joe Palko at PBZ/Eastern Region: Update the baseline CheckTandTd Smart Tool to CheckTTdWind. The original tool was created and baselined by

GSD to address an NWS requirement for the QC of Temperature and Dewpoint grids. A new requirement has been added to also QC Wind and WindGust grids.

Problem: GFE Small enhancement request. (DR 18620)

The following was called in by Joe Palko, PBZ/Eastern Region:

Starting in OB7.1 the gridded MOS guidance is available, but it has a naming convention of PoP12. The baseline forecast grids have a naming convention called PoP. Therefore 12-hr PoPs from the MOSGuide database do not populate into the PoP weather element in GFE.

Matt Hirsch (MLB) has posted "MyMOSGuide" smartinit to add this capability. Check it out at:

<http://www.mdl.nws.noaa.gov/~applications/STR/generalappinfoout.php3?apnum=1110>

This smartinit needs to be fixed/placed in the baseline for future builds.

Problem: Increase Number of Stations within NWSRFS. (DR 18608)

KRF has reached the upper limit on the number stations that can be used within the forecasting element (ofs) of the National Weather Service River Forecast System (NWSRFS). The current limit is 5,000 and the RFC is requesting that that limit be raised to 10,000. This request for an increase will allow KRF to include additional gages that are already in place and planned expansion of gaging networks within their service area. This will improve both the accuracy of the forecasts and verification statistics.

Problem: IPC socket connections from dx1 --> px2f hang. (DR 18598)

Since the onset of OB7.1, the NCF has noticed a great number of sites who have ldad processes linger on their px2f device until killed by a root user manually, or until the device is rebooted. These processes are kicked off by the listener process on px2f. They are initiated when a product stores to the fxatext database, and the process textdbNotify.pl is run via trigger. So, the process flow goes like this:

Text Data Ingest --> TextDB -Write --> textdbNotify.pl --> listener (on px2) --> rcp/rsh to ls1

The command to the ls1 completes just fine, but the process itself on px2f does not stop. When issuing an `lsof | grep :15008` to see the state of the listener process, which parents these rcp processes, you will see a CLOSE_WAIT socket connection to dx1 for each of the hung rcp in this format:

```
listener  575 ldad  9u IPv4 58476192      TCP px2f-buf:15008->dx1-buf:53450
(CLOSE_WAIT)

sh        675 ldad  9u IPv4 58476192      TCP px2f-buf:15008->dx1-buf:53450
(CLOSE_WAIT)

rsh       841 ldad  9u IPv4 58476192      TCP px2f-buf:15008->dx1-buf:53450
(CLOSE_WAIT)
```

This problem is similar to the one notificationServer had in OB6 (Ref OB6 DR 15696). The problem is had was with socket connections communicating with the TextDB. This also appears to be a problem with the communication with process, as the TextDB_Server begins the whole process with a trigger kickoff.

The problem is causing eventual resource issues, and sporadic data flow problems from the px device to the ls1.

Problem: GFE: "Populate" menu too long to be displayed. (DR 18597)

When ILN hits the populate button, the menu becomes too long since it is populating both sites and because of this, the window is not able to display all parameters. Unfortunately there is not scroll bar for this window when this occurs.

Problem: GFE: Problem with ZFP for non-precip weather. (DR 18596)

ARX had problem with the ZFP formatter for non-precip weather, such as fog, blowing snow, haze. They will cause the formatter to fail when weather local effects have been implemented.

Two different exceptions occurred. There is an override for the one. The other one can be avoided by making changes to the local effects areas.

Problem: GFE: Enable upgrade/downgrade of tsunami hazards. (DR 18579)

GHG was not allowing GUM to upgrade Tsunami Watch to Warning properly. GHG generated CAN/NEW actions instead of UPG/NEW.

Problem: Delete or Backspace does not work for one user in Text Editor. (DR 18576)

The site called to have problem with Text Editor brought up from LX1, LX2, and LX3 via 'tool' menu in D-2D GUI. The Delete and Backspace did not work while the user highlighted a word or a few words and tried to delete it in the Delete or Backspace button. The user was able to cut the word from Text Editor menu bar.

While ASM developer investigated the problem, Text Editor hang while entering information in Product Header GUI with AWIPS ID fields filled but left AFOS ID (CCCNXX) fields blank. This problem did not occur in Text Editor on XT1.

Workaround.

1. Move away the cursor away from the editor window and move back again, the problem will disappear. The alternative is working on Text Editor at the text workstation, XT1.
2. Always fill in AWIPS ID and AFOS ID fields in Product Header GUI while working on Text Editor brought up from LX1, LX2, or LX3 workstations. Again, the alternative is working on Text Editor at the text workstation, XT1.

Impact. Because there is a workaround, there is no impact on AWIPS operation.

Problem: BurnToCd.tcl passes wrong parameters to growisofs. (DR 18569)

Matt Foster / OUN found that in the BurnToCD.tcl script on the archive server, if you are trying to burn a DVD it passes a `-speed=8` parameter to the `growisofs` commands. Unfortunately, the DVD Burner's top speed is 2, so passing the wrong speed defaults the write to 1x.

File Name: BurnToCd.tcl

Line Number: 662

```
set burnCmd [list /usr/bin/growisofs -speed=8 -Z /dev/dvd=$isoFilePath |& cat]
```

Problem: NWR Editor crashed. (DR 18564)

The site could not call up a product to edit through the NWR Editor. When an AFOS id was entered into NWR Identifier, nothing was brought up. When the site tried to bring up a product through the Text Identifier window, NWR Editor crashed.

Workaround. None.

Impact. The users can only call up the products buffered in the pending list for editing. They can not call up any product from the text database using AFOS id.

Problem: AF: Update admin_msg GUI for Linux. (DR 18557)

The `admin_msg` GUI at the NCF was designed for HP-UX, so it does not work properly from the Linux MHS servers. While the TCL scripts will run anywhere, they call applications that run only on HP-UX such as `dterm`. `admin_msg` must be tested and all HP-UX only commands must be replaced by their Linux counterparts. This only impacts the NCF. There are no related trouble tickets. Workaround is to manually generate admin messages, which is tedious and error prone.

Problem: KDE 3.3 menu cache causes problems. (DR 18545)

In KDE3.2 the requirement was in place to have KDE and Gnome share menu files (the menus that appear when you right click on the background of a KDE session). That being said, KDE3.2 and higher versions (AWIPS now uses KDE3.3 in OB7.1 – OB6.X sites use KDE3.1) create a menu database cache for every user who logs into a system and launches a KDE session. This cache is located in `/var/tmp` and follows the naming convention `kdecache-$USER`. This directory contains the cached menu files that get loaded when a user then logs back into the system.

Should the user change his/her desktop menu configuration during a session and logout the `kdecache-$USER` files are not updated because they require a re-sync of the menu database. This is usually achieved via an application call `kbuildsysoca`, however AWIPS has this feature disabled (most likely due to issues with NFS user homedirs). The changes will still get written to the config files, however `kde` must “load” these config files in the `kdecache-$USER` directory in order to read them.

The solution is that the user should after logging out remove the `/var/tmp/kdecache-$USER` directory. Then, upon next login this cache will get recreated using the newly updated menu config files (`~$USER/.kde/share/applnk` or via the `.menu` options).

NB: Since this cache is located on the local disk, there is the possibility that a users session will be different on different LX and XT workstations even though the configuration is on a NFS mounted partition – KDE now reads the files from /var/tmp/kdecache-\$USER which is local.

Problem: Metar2shef translator not producing shef messages when -nospeci is used. (DR 18525)

The metar2shef translator is invoked with a series of command line arguments. One of these arguments, -nospeci, instructs the translator to not process those metar reports which are special reports and contain the notation SPECI. In OB7.1, if the -nospeci argument is used, the metar2shef translator will: a) ignore special metar reports as it supposed to, and b) decode the metar but NOT create SHEF messages for non-special reports. By not producing SHEF messages, the data is not posted to the hydro database and is not able to be used by Riverpro to create products such as RTPs. Also, the hourly precipitation data will not be available for Hydroview and MPE applications.

Problem: Space preceding SM in METAR observation is decoded as 0 in netcdf file. (DR 18524)

Phil Mieczynski / VRH reported when a METAR observation comes in with a space (' ') between the visibility value, and the SM notation the value is recorded as 0 in the netcdf file. For exaxmple:

```
SAUS70 PAAP 181900 RRW
```

```
METAR PAAP 181857Z VRB02KT 2 1/2 SM -RA BR SCT000 OVC010 04/03 A2971  
RMK BR SCT000 NOSPECI
```

Instead of the visibility value being 4023 meters in the netcdf file, the value is actually 0. I verified this by doing an ncdump of the file.

Problem: Problem with guidance winds in GFE when direction is due north. (DR 18523)

Matt Davis at La Crosse WI has found that guidance winds in GFE can be plotted as being from a different direction when the wind direction is from due north.

The following is from Rici Yu:

The problem is that the Smart Initalization modules (one for each model) need to be modified. Currently GFE tries to generate wind by first interpolating direction (where the problem comes in) and speed. It needs to interpolate (u,v) instead.

Problem: GFE: Remove snow flurries and ice crystals as accumulating type. (DR 18506)

Flurries and ice crystals should not be considered as accumulating weather type. Currently the ZFP contains the phrase "no snow accumulation" when flurries are forecast.

Problem: RadarStorage mishandles the new Mesocyclone Detection (MD) product. (DR 18498)

The new MD product (141) is volume based, and uses halfword 30 for adaptation data. Its value will always be non-zero. RadarStorage interprets hw 30 as elevation, and won't send the product unless it sees a match in the elevation angle field of MD's entry in prodList.txt. Since MD's prodList elevation field is zero, hw 30 of the ingested MD product never matches and the product is never sent.

Problem: GFE VTEC: Multiple action codes in same segment for same ETN. (DR 18496)

A number of sites have experienced GHG assigning 2 different action codes for the same ETN in the same segment. This causes severe dissemination and tracking issues with our customers and must be fixed ASAP.

Discussions have taken place between developers and service leads and clarified requirements are being drafted.

Problem: backup_pgdb doesn't return non-zero exit code on pg_dump errors. (DR 18489)

When /awips/ops/bin/backup_pgdb kicks off for a pg_dump, it uses the following command:

```
$PSQL_BIN_DIR/pg_dump -Fc -Z9 $DBNAME | split --bytes=1024m -  
$DUMP_DIR/$DBNAME.
```

```
RETURN=$?
```

The value of return will not be 0 (zero) even if pg_dump has errors, because it will gather the exit code of the split command. This happened at site KRF, who did not have a good backup for 4 days, because the backup_pgdb was failing, but the log shows EXIT_CODE=0.

We ran the backup_pgdb -d hb_ob7krf by hand, it had errors, but the backup_pgdb log still shows EXIT_CODE=0.

This is a problem due to the fact the NCF will not get alarms if good backups are not being created. Sites stand the chance to lose data in the event of a hardware failure without good, recent database backups.

Problem: Alert Request error for forecast MDA strength rank. (DR 18485)

When the adding a new alert for 32 Fcst MDA Strength Rank, an error is given. This only happens when adding that specific alert. See attached image and log for details.

To get the error complete the following actions: open D2D, select Radar from the D2D menu bar, select Alert Request, and select 32 Fcst MDA Strength Rank from the category pull-down menu.

####

16 Vol MDA Strength Rank has the same problem. -CWL [16-JAN-2007]

Problem: ArchiverGUI says “Version OB6” in title bar. (DR 18483)

The ArchiverGUI says “Version OB6” in title bar. See the attached image for details. This seems to be a very minor DR.

Problem: The purgeProcess -commit was not killed after failover back. (DR 18481)

The purgeProcess -commit was not killed on DX2 after failover back from dx2 to dx1. It continues to run on dx2 and both processes will purge data. I have confirmed that this problem exists on both OB7.1 and OB7.2.

Problem: IFPS/GFE install script sets wrong permissions on GFESuite subdirectory. (DR 18425)

After OB7.1 installs, it was found that the permissions on the following directories were set to 755, and they need to be 775 in order for the NotifyTextProd process to create the files which the VTECDecoder uses to update the active.tbl

/awips/GFESuite/primary/data/vtec/spool

/awips/GFESuite/primary/data/vtec/backup

After trying to set it manually to 775 before the masterGFE and IFPS install scripts, the directories were re-set to the incorrect permissions after these scripts.

MK - updated Level to OPR

Problem: Incorrect imgProductButton causes CBRFC 1hr FFG Display Problem. (DR 18418)

Kristen Delack / NCF found a typo in the nationalData file imgProductButtons.txt which causes the CBRFC 1hr RFC image not to be displayed.

The following line is incorrect in the national file:

```
25020 | 0, 0, 25020, 25020, 25010, 25020 |1hr FFG |CBRFC 1hr FFC |0
```

The 25010 in the second column should be 25020.

Workaround. Requires editing a controlled, nationalData file.

Impact. Sites cannot display CBRFC 1hr FFG. Problem exists in OB7.2 as well.

Problem: AFC Needs NDFD Grids Excluded at the CPSBN. (DR 18389)

Kathleen Cole / AFC reports there is no need for the site to ingest, decode and store the NDFD HPC Guidance or the NDFD Mos Guidance. These are only viewable on the CONUS Scale.

To exclude these products at the CPSBN, the following lines must be added to the /awips/data/acq_wmo_parms.afc file:

CODE 72 EXCLUDE L?U????WKBQ*

CODE 73 EXCLUDE M?U????WKBQ*

CODE 72 EXCLUDE L?U????WKBn*

CODE 73 EXCLUDE M?U????WKBQ*

This file will need to be fixed to avoid problems in future releases with the operational file being overwritten after the install is complete.

Problem: XSETS Product Data Written Beyond Column 68. (DR 18388)

If XSETS reads in a one hour time series, it produces a SHEF message where the first line of data ends beyond column 68.

Problem: XSETS incorrectly formatted .E product. (DR 18387)

If XSETS reads in a one hour time series, it does not produce a correctly formatted SHEF .E six hour time stepped message.

Problem: GFE: double temperature wording in ZFP product. (DR 18363)

The gfe formatter is given a double temperature wording in GFE for the zone forecast

OMAZFPOAX is reporting both the steady temperature and high's and low's

Problem: GUM - Modify CP filter to delete GFS CONUS Grid 212. (DR 18358)

Site GUM wishes to modify the baseline acquisition parameters file on the CPSBNS. They wish to have the filter remove CONUS GFS Grid 212 data at the CP. They currently receive OCONUS GFS40 Grid 254. The file to me modified is likely /
/awips/data/acq_wmo_parms.sbn.gum

Problem: NRRWAVES Silence Period failure when crossing calendar day. (DR 18341)

Site called to report that the 'new' NRRWAVES is unable to establish a silent period from 1201am to 501am. Development team researching TTR #270514 determined a software bug which prevents silence period from functioning correctly when the silence period crosses midnight from day one to day two. Fix has been identified for this bug; fix can be included in OB8.2 release of NRRWAVES.

Problem: GFE: Minor change in AFD formatter. (DR 18339)

A minor bug has been found in the Baseline AFD formatter in the marineNameDict section. The code for Lake St Clair should be LC instead of SC. SC is the code for South Carolina and having it in the marineNameDict is causing problems for South Carolina offices. I fixed it in our regional formatter, so it should not be affecting anyone now, but it will need to be fixed in the baseline for the next release.

Problem: OB7.X : readenv.csh line for ifps-main.env causes startProcMon to fail. (DR 18334)

When the DX_startProcMon.sh script runs it sources in fxa environment variables. One such source in the environs is:

```
if( -r /awips/adapt/ifps/bin/hp/ifps-main.env ) then else
echo "PROBLEM: ifps-main.env not found."
```

The problem is the DX_startProcMon.sh script defines a variable DX1f_HOST as:

```
DX1f_HOST=`ssh dx1f "hostname"`
```

Doing so as user fxa. At RFCs that ifps-main.env file does not exist, thus when the variable is defined it gets defined as:

```
DX1f_HOST=PROBLEM:
```

The DX_startProcMon.sh, if it cannot verify the DX1f_HOST will break and exit without starting the ingProcMon.pl -c DX1

This causes ingProcMon.pl -c DX1 and subsequent dx1f monitoring (via the Netscape Monitor) to fail at RFCs.

Problem: GFSensemble time series displays incorrectly. (DR 18289)

When GFSensemble is loaded as a time series through the volume browser in D2D, it shows loading of 12 perturbations, however perturbation 2 loads first, and then perturbation 1 and 3-12 are loaded with ranges of data at each time stamp. Each time you unload the "first" perturbation, the next one in line plots correctly. For example, if you unload perturbation 2, then perturbation 1 plots correctly.

From Mike Moss / SST :

To bring up the data: From the volume browser choose Time Series (say Point A), Ensemble, any variable (say temperature) and Plane (say 850 mb), then for source -- GFS Ensemble.

What gets displayed, instead of the proper "spaghetti" pattern you see at OB6 sites (more spread out in time), is a single plot for the first perturbation (usually #2), then vertical what is apparently range lines and a connecting line from perturbation #12 to perturbation #1 at the next forecast hour. If you display the wind barbs you only see a repetition of the lowest most barb in the "vertical" (which should really be the barb for each perturbation); that is, the same perturbation is being displayed at all "levels".

The best way to describe this problem is visually and I'll be glad to go over this with whoever is responsible for the DR.

Joshua Watson / VUY discovered this problem.

This was shown to be a problem at OB7.2 sites as well, but not with OB6 sites.

Problem: D2D Incorrectly Displays GFS40 Precip Type. (DR 18287)

Dan Baumgardt / SOO ARX reported the OB7.1 baseline delivers an icon set inconsistent with the SBN GRIB decoder file for the GFS40. In particular, the freezing rain is encoded incorrectly as all snow, and snow as rain / snow in the Precip Type.

Documented at: http://intra.crh.noaa.gov/metdat/vb/ptype_gfs40.htm

FIX:

In the iconStyle.rules file, change this entry:

```
* PTyp, ETA218
| 1 | 0 | 16,2 | 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | \
255 79 71 71 80 183 185 185 89 47 186 186 184 188 187 187
```

to this entry (add ", GFS212"):

```
* PTyp, ETA218, GFS212
| 1 | 0 | 16,2 | 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | \
255 79 71 71 80 183 185 185 89 47 186 186 184 188 187 187
```

Problem: SHEF Decoder Intermittently Shuts Down. (DR 18205)

The SHEF decoder at PTR will shutdown during product processing infrequently and at irregular intervals. There is no particular product that causes this shutdown. Originally OHD and HSD both suspected it might involve the NSF mount problems, but this has proven not to be the case.

Problem: Logic error in makeStationFiles.csh restricts synoptic station coverage. (DR 18184)

This problem exists in all current builds.

```
localization/scripts/makeStationFiles.csh lines 206-210 read
206 set SYNOPTIC_SCALE = ` $configValue SYNOPTIC_SCALE mainConfig.txt 0 `
207 if ( $SYNOPTIC_SCALE == NONE ) then
208     mv Wsynoptic.goodness synoptic.goodness
209 else
210     set areaSup = ` $scaleSup $SYNOPTIC_SCALE `
```

It's easy to see that SYNOPTIC_SCALE will not likely equal NONE, so the else branch will be taken and synoptic display will clip to \$SYNOPTIC_SCALE (probably 0). The line 206 should be moved to fall between lines 209 and 210.

This will affect only sites with southern hemisphere displays, but is a significant problem for them.

Problem: Can Not Edit Time Series Data in Graphical Display. (DR 18183)

Some of the functionality found in the tabular display of the time series data is not found in the graphical display of the time series data. Particularly the ability to set a data value to missing. This functionality exists in the tabular display, but not in the graphical display. Including this functionality in the graphical display would make it more efficient to qc data. Otherwise, you have to work with both displays, one to find the bad data value on the graphical display, then set the value to missing in the tabular display. This can be slow and cumbersome.

Setting data to missing changes the value in the IHFS database, and the missing value is then passed on to the fs5files in NWSRFS through ofsde/batchpst. A deleted value does not get changed in the fs5files.

Problem: Unit Hydrograph Editor not Launching from HydroBase. (DR 18179)

When attempting to launching the unit hydrograph editor from the rivergage menu in HydroBase, the editor crashes.

Problem: GFE Missing accumulation phrase in ZFP. (DR 18160)

Since OB7.1c install -- there is a bug in the module called "check accumulating weather" in the scale or phrases for the ZFP formatter

> *EXAMPLE*: If you have for one period (tonight and tomorrow for example) pops of 60% or higher for the entire period, the national directive states you must have accumulation totals...if you have stratiform snow, and snow showers, in this same period, a descriptor is not generated (e.g. a word like accumulations). What happens is if you have S (for snow) and SW (for snow showers) there is a variable created called SNOWSNOW (all one word) which does not return a descriptor.

Workaround. Had site edit the descriptor_dict which has these array of variables and descriptors, there is no snowsnow, so they added one that would return the descriptor - accumulations of - into the ZFP for this event type.

MKensley 12/12/06 - updated title to remove OB7.2 reference, and removed the "c " from the Release Discovered field.

Problem: Radar X-section - request better vertical coordinate defaults. (DR 18101)

Mike Magsig from the Warning Decision Training Branch submitted the following problem report for OB7.1 beta 2 software. This is not an operational AWIPS site, but is a NWS entity that uses AWIPS software for training purposes. Mike contacted Ed Mandel, who suggested that he open an NCF trouble ticket to track the problem, which Mike thinks could be affecting other OB7.1 sites.

Mike is developing the training for OB7.1 along with Timm Decker at the WDTB and others in the NWS Training Division. Mike found that The new radar cross section capability in the volume browser has millibars as the primary vertical coordinate, and only limited height options in the volume browser. The standard coordinate for radar cross sections in the current RPG radar product used in warning decision making is height in Kft. The default state of the VB is not very useful, and it will have to be changed by everyone to get it in a usable state for warning decision making.

The test instructions have the few lines to add to the vbVcInfo.txt file to provide useful coordinates:

```
http://www-sdd.fsl.noaa.gov/~fxa/test_plans/build_ob7/tc_3240.html
```

Mike tried these, and the modification worked. He found that these values are better, but AGL in all height units and more levels up high is needed. Mike recommends the following values as meaningful defaults:

```
6 0.0 80000.0 "0-80 kft AGL"
```

```
6 0.0 60000.0 "0-60 kft AGL"
```

```
6 0.0 45000.0 "0-45 kft AGL"
```

```
6 0.0 30000.0 "0-30 kft AGL"
```

```
6 0.0 15000.0 "0-15 kft AGL"
```

```
6 0.0 10000.0 "0-10 kft AGL"
```

```
6 0.0 5000.0 "0-5 kft AGL"
```

Problem. High elevations are not plotted in SPG Unit Status graphic. (DR 19165)

Mike Istok noticed a problem in the TDWR SPG Unit Status graphic:

Not all the elevations for VCP80 and VCP90 are plotted.

Error messages are found in IGC_Process log:

```
IGC_Process 21133 1181748924.532061 15:35:24.532 PROBLEM: Invalid Elevation: 257.
```

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6 0.0 15000.0 "0-15 kft AGL"

6 0.0 10000.0 "0-10 kft AGL"

6 0.0 5000.0 "0-5 kft AGL"

Problem. user password change fails over NIS from lx/xt console. (DR 18393)

There is a bug in the password change mechanism on OB7.2 systems when a user is asked to change their 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 "yppasswd" 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.

(Refer to Section 1 for more information.)

Problem. "import_GFEconfig_for_svcbkup" should reference to dx4 instead of dx2. (DR 18100)

The "import_GFEconfig_for_svcbkup" did not get installed in OB7.1. Apparently in the instructions file this file was marked as old, so the new file did not get installed. The old file is referencing dx2 instead of dx4, so the GFE does not start from service backup gui which was fixed in version 43 of the file (The site has version 42).

Problem. The EMDS server needs to be configured for LDAD on all test platforms (DR 18098)

The EMDS server cannot connect with ls1 - which is necessary for acquiring data for Web Dissemination testing.

Problem. Climate F6 product won't run...(Ref. OB7.2 DR 18422, OB8.1 DR 18423) (DR 18095)

The f6 product will not run correctly from the command line or the cron. This is due to the fact that when passing the parameter 0 to the application, it fails when going to build_f6

Problem. OB7.1/OB7.2 process monitor has SynopticDecoder on wrong host. (DR 18091)

The OB7.1/OB7.2 version of dataMon/monitorProcesses.txt shows SynopticDecoder and its DataController on dx1 instead of dx3.

Note: These entries are commented out by default, which probably explains why this error has not been noticed. It would be appropriate to add a comment to dm/synoptic/SynopticDecoder.config to remind whoever may enable/disable the decoder to uncomment/comment the lines in dataMon/monitorProcesses.txt and dataMon/point.cfg. (These used to be handled by toggleDecoder.pl, but that was retired some time ago, so they need to be done manually.

Problem. MPE Multi-Hour Accumulation window ending time bug. (DR 18087)

In the MPE editor, the very first time the Multi-Hour Accumulation window is launched, the ending time field is missing. However, if you close it and reopen it, the date field is there and everything is fine.

Problem. AF: Make start_comms_upl_send detect operational NCF site. (DR 18086)

When start_comms_upl_send starts the uplink_send processes as part of the comm1 service on cs1 at the NCF, it assumes that the current site is actively uplinking SBN data. This is not necessarily true, however. In the case of HazCollect, it is possible for the BNCF to receive HazCollect messages while the ANCF is the active SBN site. The SBN uplink site can be determined from one of the MHS servers using the 'msg_ctl -A' command. This can be called from start_comms_upl_send to set the active uplink site. In addition to making this change, the procedure for switching the NCF operations between the ANCF and BNCF must be changed to

include calls to stop/start_comms_upl_send after making the operational switch of MHS and SBN.

This only affect the NCF software. It is not run at any field sites. The work around is a manually intensive fix run by the NCF that is error prone. If the NCF does not perform this task after an NCF switch operation, it is likely that some HazCollect messages will not get delivered over the SBN in a timely manner. There are no trouble tickets associated with this problem.

Problem. Cannot display FMFP Precip Rate product unless DHR has been loaded once (DR 18074)

On TBDW (OB7.1) and TBW3 (OB7.2), if the DHR product has not been loaded into a pane yet, the FFMP Precipitation Rate product loads with a legend, but no data and no color bar. Once the DHR product is loaded into the pane, the precip product will load correctly. This applies to each pane and each workstation.

A display log from lx6-tbw3 was captured and sent to Mike Churma and Tom Filiaggi.

Problem. STI & HI magnitudes and densities are not editable. (DR 18020)

The Radar Display Tools should allow the user to edit the display of storm track (STI) and hail index (HI) products loaded into the main pane on the fly. It was found that the new product display settings selected will not take affect until after new data comes in and product is updated.

(Note: This DR auctioned to HELD based on the OB7.1 Minor DR rules at the 09/25/06 TSR.)

Problem. Choose by ID can't choose DMD IDs. (DR 18021)

The D2D tool, Choose By ID, should be able to choose DMD IDs. I found that if the DMD ID is entered into the point A row, for example, point A does not move to where the DMD is. Point A should be assigned new coordinates, the same as the DMD. It is not and point A stays where it is.

For example, if point A is currently over KDCA and you load a time series for point A, it will give you a time series for KDCA. If you use Choose By ID to set point A to a DMD, for example, near KIAD, a new time series loaded for point A should be one with data from KIAD.

(Note: This DR auctioned to HELD based on the OB7.1 Minor DR rules at the 09/25/06 TSR.)

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

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

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

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

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

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

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

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

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

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

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

BBServer_1.11.1.17_v2

Unable to view LDAD BBS text products using modem connection for LDAD server. Modem line needs to be moved to the TBDW platform.

Problem. LDAD: Unable to perform Fax Capability. (DR 18034)

FaxCapability_1.11.1.12_v2

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

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

Handar555_1.11.1.11_v2

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

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

Mesonet Backup 1.11.1.13_V2

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

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

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

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

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

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

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

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

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

The PRISM CLIMO grids on the grid manager sometime cannot be selected . The user uses the arrow key left and right to step through the precipitation (tp) grid.Problem. setupAwipsUser.sh has obsolete reference to openssh. (DR 17960)

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

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

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

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

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

3 # MODIFICATION HISTORY:

4 # -----

5 # NAME DATE CHANGES

6 # M. Huang 05/26/05 - Moved NWWSKeepAliveMsg to DX (DR_16193)

7 # M. Huang 05/27/05 - Moved mhs-data.purge into DX (DR_16194)

8 * M. Huang 01/11/06 - Added nwrWatchDog.sh into DX (DS decommission, DCS_3304)

9 # M. Huang 02/21/06 - Reconfigure processes in dx1,dx2,dx3,&dx4 (DCS_3328)

10 #-----

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

IFPS not storing MOS data in ifp database.

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

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

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

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

R= requirement

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Problem. WarnGen: Issued time or TZ error in MND header. (DR 17544)

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

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

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

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

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

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

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

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

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

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

From Joe Wakefield: I find that there are two copies of textQC.config, one in textWS and the other in localization/nationalData. Based on the dates, it appears that the file was initially in textWS but then moved about three years ago. The textWS version should be removed from the workset to avoid future confusion.

Problem. AvnFPS: Flight category feedback (Ref. OB7.2 DR 17473). (DR 17472)**Problem. RMR log file need to generate every submit request. (DR 17457)**

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

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

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

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

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

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

Problem. NWRWAVE TTR#63 (DR 16989)

Add new c-shell script (invoked via crontab) to update SUMMARY message in between calls to NWRWAVES for product formatting.

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

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

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

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

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

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

4.0 RELEASE OB6

4.1 OB6.1

Problem: Text window may fail to pop up when generating warnings. (DR 19131)

In warnGen, the text window failed to pop up after a warning was issued. The site had to figure out what the generated product was called (it was WRKWG4), then manually find the product.

Apparently this is not a beta issue, as Andy Pohl at GYX says it has happened before.

The operational impact could be high as warnings could go out late.

Workaround. Know the name of the product generated and find it manually.

Problem: DS Decommissioning: Post-Decommissioning Scripts. (DR 18774)

After verifying that the AWIPS Application Software, DS System Software/Infrastructure (internal to DS), and External System Software (external to DS) have been migrated from the HP Data Servers (DSs) to the Linux Data Servers (DXs) and the Linux Pre-Processors (PXs), then the post-decommissioning steps need to be performed.

Problem: Update NWSRFS MAT max/min 6-hour conversion coefficients (DR 18651)

Update the maximum temperature/minimum temperature to 6-hour conversion coefficients for the Mean Areal Temperature Pre-Processor in NWSRFS. The current default coefficients are most appropriate for the Eastern United States. However, these coefficients are not appropriate for the western United States and Alaska.

Problem: Error when editing radar request in RMR GUI. (DR 18484)

I have observed an error when editing a request in the RMR GUI. If one is to edit a request for elevation 0.5, data level 16, and resolution 1 the Edit Product GUI will display a resolution of .00005. If the user selects a different radar, then the resolution will go back to the default setting one 1. If the user selects a different elevation or data level, the resolution will remain .00005 and when the OK button is selected an error will be displayed. See the attached image for more details.

Problem: LSR Max city radius needs to be expanded to ~70 nautical miles. (DR 18435)

The problem is that Lake Charles Louisiana issued a local storm report for an offshore point that is more than 36 miles from the coast. They are responsible for marine zones out to around 70 miles offshore. The closest city on the LSR comes up as 'xxx' because of the way the application is set up. They would like the closest city to be able to get listed when the offshore point is more than 36 miles from the coast, up to 70 miles offshore.

Problem: XNAV Site Identifier Problem. (DR 18420)

When locating certain precipitation data points in XNAV: if the first three letters of a 5-character ID match a three-letter ID, XNAV defaults to the three-letter ID for plotting and will not plot the location of the 5-character ID.

Problem: XSETS not printing to three places after decimal points. (DR 18362)

The XSETS program, that is used at the RFC's to generate their SHEF encoded forecasts, utilizes thousand cubic feet(KCFS) as its standard unit of measure. However, it prints only to 2 places after the decimal point. It would improve program usability if an option could be specified within the configuration files to at least 3 places after the decimal point. This would allow the program to generate the necessary products to support additional low flow/drought related services at the RFC's.

Problem: OB6: /var/spool/clientmqueue filling. (DR 18327)

There appears to be a problem on all Linux devices where a directory is filling due to a queue of files. The files are located in

/var/spool/clientmqueue

This directory is used by the sendmail program. If sendmail is not actively in use, files never get removed from this directory. The files in there appear to be output of programs that were kicked off (mostly via cron).

The problem this creates is when the number of files in that directory become very large. An example at CAE (NCF TT's 267597 and 267856) happened on px1-cae. The site could no longer print to the printers and this was because the inodes were maxed out on px1-cae. There were over 360,000 files in that directory. The system was reporting /var as full even though its actual disk space usage was only around 52%. Once the directory was cleared, the printing problem went away.

Workaround. Editing /etc/crontab and changing

MAILTO=root

to

MAILTO=

fixes the problem.

Problem: Site Specific Model Ability to use alternate Unit Hydrograph. (DR 18319)

Currently, the Site Specific model limits the user to using one unit hydrograph per location being modeled. There is a need for the following:

1. An ability to define and store multiple unit hydrographs for a given location.
2. An ability to select, for any location, any of the defined unit hydrographs for use in the current execution of the site specific hydrologic model.

Problem: Extra end of Report indicators(\$\$) appearing in Record Event Reports . (DR 18284)

In the climate (Record Event Report)RER, There are extra \$\$ being added. Another reference ticket is TT# 265661.

Problem: XNAV Animation Controls Unreadable. (DR 18190)

For the 1 and 24 hour Radar Precipitation Display gui the buttons under "Animation Controls" are all black.

Problem: Time Series can not Plot SHEF Encoded Soil Temperatures. (DR 18182)

The SHEF format allows for the reporting of a single physical element at multiple levels for one location (eg., soil temperature at multiple depths). Data of this type is stored in a separate table in the hydro database. The Time Series application currently is not able to plot data from that table.

Problem: Locations with variable duration data can not be defined in Time Series groups. (DR 18181)

The Time Series Application allows users to set up predefined groups for quick display. These groups use the location ID and the SHEF physical element, duration, type source and extremum as part of the group definition. Data which is reported with a variable duration are unable to be set up in these predefined groups.

Problem: SCAN localization needs hydro database to be available to complete successfully. (DR 18173)

Currently, in the install process, the hydro database is offline during the scan install. This causes errors in the scan localization and gage information from the database is not processed. The fix involves starting the postgres earlier in the install. This is a low risk move. Here are the errors from the localizeForFFMP log:

```
14:16:49.071 FFMPlocalize.C EVENT: Accessing data base: hd_ob72sto
```

```
14:16:49.071 DBUtils.ecpp PROBLEM: DBUtils::open() CONNECT: ERROR, SQLSTATE = 08001
```

```
14:16:49.071 DBUtils.ecpp PROBLEM: Could not connect to database hd_ob72sto in line 171.
```

```
14:16:49.071 gageRetrieve.ecpp PROBLEM: Could not open the database.
```

```
14:16:49.071 FFMPlocalize.C PROBLEM: Error in calling 'gageGeoInfo_retrieveFromDB'
```

Problem: GRIBIT Program not Creating Readable Graphic. (DR 18165)

The GRIBIT QPF Graphic, being generated by PTR for HPVU, can not be opened.

Problem: Wrong Distribution Calculated In ESPADP. (DR 18159)

When choosing the weibull distribution from the ESPADP gui, the log weibull distribution is actually calculated.

Problem: OB6: vacuum on fxatext database should be run more often. (DR 18154)

Currently, the cron to vacuum the fxatext database is run twice a day.

```
# vacuum/analyze fxatext
05 03 * * * postgres /awips/ops/bin/vacuum_pgdb -d fxatext
05 07 * * * postgres /awips/ops/bin/vacuum_pgdb -d fxatext -z
```

Because this database has a large number of inserts and deletes over the course of a day, it would be beneficial to run vacuum more often in order to maintain a more level steady-state usage of disk space.

Also, in order to improve the efficiency of transactions to and from the fxatext database, the analyze option should almost always be used.

Problem: GFE Spell Check not working. (DR 18152)

The spell check is not working in GFEE. It is happening on all workstations for all users. He also said it has been happening for about a year. Two examples he gave where.

After the ...

.THIS AFTERNOON... MISPELLED WORD

and if a zero was used instead of the letter o.

t0, t00, etc.

Putting in an RF because functionality has not been lost. They just need to proof read before sending out products.

Problem: PLOT-TS min/max criteria not working. (DR 18148)

The card 5 option with the PLOT-TS doesn't work. Card 5 is used to specify to plot only periods in which the data from a selected time series exceeds or is less than a specified criteria.

Problem: Incorrect FLDWAV Cross Section Output. (DR 18122)

While using the mapping option, FLDWAV fails to correctly limit the cross sections outputted for the tributary.

Problem: Inaccurate Verification Stats Generation. (DR 18118)

There seems to be a question regarding how the pairs building program is determining what gage type source to use for pairing. For every forecast point the RFC has defined either RG, RP, or RZ for the Sensor Preference using 'ivpruninfo'. But when the pairing script is run, there is quite a variety of data type sources that are incorrectly being gathered by the program (RB, RC, R2). At one forecast point, for example, the program should be collecting HGIRZ for observed data - the archive database holds a complete set of HGIRZ data, but the pairs building program fail says it is using HGIRC data. This results in the generation of inaccurate verification data.

In short, the verification program does not appear to be using the Sensor Preferences as defined in vfyrininfo. The result of which is the generation of inaccurate verification statistics.

Problem: Problems With Display of GFS90 Images. (DR 18116)

GFS model data (GFS90) will either not display or crash a pane when swapped. To crash a pane:

1. Log on to LX workstation.
2. Load D2D in middle monitor
3. Choose CONUS scale.
4. From Volume menu, choose GFS.
5. Change precipitation field to an image.
6. Swap panes.

This can result in a pane crash in the smaller pane that the data was going to. The image information loads fine in the main pain and all hours look to be correct. However, once the swap is begun, the pane will crash and the following red banner will display: "Can not display GFS90 Precipitation Img(in) 19.12 42HR Thu 06:00Z 21-Sep-06"

Here, the log file shows:

BUG: Stack tracing capability not implemented.

BUG: Signal 11 (Segmentation Violation) received for dirty shutdown IGC will continue however!

Some further information on the pane crash:

It is only a certain model forecast hour(s) that crashes.

It is only on CONUS scale.

It is only on the middle monitor.

It can be other fields, not just precipitation.

Again -- other varieties of problems with the display of GFS90 image model data have been reported. All the sites do have the following common type entry in the IGC logs:

IGC_Process 21878 1156515097.640455 14:11:37.640 VERBOSE: Reading file /awips/fxa/data/localizationDataSets/EWX/gridImageStyle.txt in StaticTextDict

IGC_Process 21878 1156515097.704350 14:11:37.704 BUG: Stack tracing capability not implemented.

IGC_Process 21878 1156515097.704485 14:11:37.704 BUG: Signal 11 (Segmentation violation) received for dirty shutdown

IGC will continue however!

IGC_Process 21878 1156515097.704619 14:11:37.704 PROBLEM: Can not display GFS90
Precipitation Img(in) 25.00 192HR Sat 00:00Z 02-Sep-06

The SST discovered that using a 3 rather than 5 panel D2D display will mitigate the problem although the image appears to be distorted. Also, this problem only seems to appear on CONUS scale. The same model on North American scale appears to work properly.

Problem: Radar Mosaic prints data from only 1 or 2 radars. (DR 18115)

While working on another print issue, we found that when a site brings up a radar mosaic (Radar-->0.5 Reflectivity Mosaic) and prints to either lp1 or lp2, only one or two of the RDA echos will print out. We have tried this on multiple systems, and each fail on OB6 and OB7 sites.

Problem: 1 Hour Delta-T disallowed. (DR 18111)

When redefining stations with data type STG, source CDAS, time interval 1 the 1 hour delta-t is disallowed and set to 6 hours.

Problem: WarnGen polygon vertices should be locked for corrections. (DR 18106)

The site in testing this reported that they had an existing Severe Thunderstorm Warning [SVR] (again, in practice mode) covering multiple counties. They then issued a Severe Weather Statement [SVS] on this SVR.

We then went to correct the SVS, which we can now do in OB6. However, we also decided to try and shrink the warning polygon and removed one of the counties at the same time.

The text created did have 2 segments, one for the county being cancelled, and one for the counties where the SVR continues. However, the VTEC action code for both segments came up COR, where the cancelled segment should have come up CAN.

I know the workaround is to not change the polygon during a correction, but this is possible to do and the VTEC logic does not deal with it properly. The WarnGen software probably should not allow the polygon to be changed for SVS corrections. Original Trouble Ticket is 255795.

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

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

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

RLX had a case on September 1 when neither the Areal Flood Warning (FLW) nor Areal Flood Advisory (FLS) could be selected from the WarnGen product list. When selected, WarnGen would bounce back to the default SVR product. As an extreme workaround in the midst of severe weather, the SST purged all FLW and FLS products from the fxatext database. Because VTEC is not yet implemented, WarnGen does some complex parsing of fxatext hydrologic

products. Jim Ramer thinks the cause of the error may be an oddly formatted FLW or FLS product stored in the RLX fxatext database. Jim could not replicate the problem using the RLX products that seemed to cause the error. This issue may be difficult to resolve. Jim suggested creating a D2D/WarnGen utility to enable WFOs to work around the problem and gather AWIPS evidence to help diagnose the issue further.

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

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

From Brian Rapp/Mike Moss:

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

Messages from all the uplink sites are missing and/or

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

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

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

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

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

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

The Text WarnGen Window will not pop up on AFCs 10th workstation (named lxa, xta) in Practice/Test Mode. In May, Kathleen Cole at Mike Rega's suggestion adjusted the out of the box configuration for /awips/fxa/.environs.lxa-afc file from WRKWG0 to WRKWGa (although Mike actually suggested capital ~SA~T. Under this situation (WRKWGa), Test and Practice mode will work and store a WRKWGa if the FXA_WARNGEN_PRODUCT_ID in the .environs.lxa-afc file is set to WRKWGa. Both in Operational Mode and in Test Mode, the Text WarnGen window will not appear on xta. They can't access the WRKWGa from a Text Window because it will automatically switch the lower case ~Sa~T to an upper case ~SA~T. If you use Mike's suggestion (WRKWGA) then neither Test, Practice or Operational mode will work. If the environmental variable is set to WRKWG0 then Operational WarnGen Mode works

if the FXA_WARNGEN_PRODUCT_ID in the .environs.lxa-afc file is set to WRKWG0. Neither Practice nor Test mode works. In the later two cases, you will get an error like this:

Mismatch of Graphic & Text workstations numbers.

Graphic workstation=lxa-afc and Text Workstation=WRKWG0

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

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

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

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

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

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

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

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

4.2 OB6.1.2

4.3 OB6.a0

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

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

4.4 OB6.a1

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

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

4.5 OB6.a5

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

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

4.6 OB6.a6

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

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

4.7 OB6 a7

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

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

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

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

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

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

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

4.8 OB6-P

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

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

4.9 OB6-NCF

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

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

Problem. MHS Cluster Reconfiguration Scripts. (DR 16508)

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

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

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

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

Update configurations to send data to new NDFD servers.

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

Write Hazcollect server start/stop scripts for Battelle.

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

MHS is used to transfer site specific config and grid files from the NAS during IFPS service backup to the destination site. rsync is used to create and update the config and grid files. rsync runs continuously throughout the day visiting each site in a round robin fashion to check for perform updates to the SBU files.

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

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

4.10 OB6

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The current cron looks like the following:

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

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

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

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

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

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

```
KMLB 2 8 MLBND1 MCOND6 TBWND7 JUAND7 AMXND7 HDXND7 HGXND7
EYXND7
```

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

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

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

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

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

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

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

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

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

```
cat DENFLSBOU.262045 | localWarningInfoText d FLS
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

NTP was not implemented on the new Juniper firewalls. To ensure that the date/time on ls1 was accurate, the Juniper firewall installation added an entry to the dx1 cron files:

/etc/cron.d/dx1cron file and the /etc/ha.d/cron/dx1cron file. The LS1timecheck.sh script was run once per hour to ensure that the ls1 date/time was accurate.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Site DMX reported a discrepancy in their radar display during an event in early June 2006. The warning forecasters reported that the cells were displaced 3 to 5 miles to the "west" when the same echo was loaded from two different WSR-88D's. This condition can be re-created by loading a cell, which is equidistant between two different WSR-88D's. When the data is loaded,

there will be a noticeable counter-clockwise displacement of about 1.5 degrees. This problem was introduced in OB6.

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

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

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

FCST: Errors are being generated that the minimum days of observed data can't be preserved. The Fgroup works fine until 6 days before 31 days of data is stored when it fails 1 1/2 hours before and up to all synoptic times. Once the synoptic time passes it works fine again.

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

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

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

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

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

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

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

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

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

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

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

Mass balance uses DAILY discharge to balance and recompute adjusted discharges, and pool. In the mass balance process, for any day with one or more missing data in one or more period(s), that day is treated as missing. Since 18Z does not have a whole day of observed data, the mass balance truncated the observed data for the entire day.

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

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

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

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

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

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

Problem. mosaic image style error. (DR 17757)

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

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

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

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

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

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

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

STEPS TO RE-CREATE:

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

APPLICATION ERROR MESSAGE:

(pasted below is the actual application error)

```
invalid command name .parameters.values.lab30"
```

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

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

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

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

Precip Water -- 0.49 (OB5)

Problem. Missing MEXMOS in GFE. (DR 17548)

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

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

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

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

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

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

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

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

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

During the severe weather event of the evening of 5/9/2006 and early morning of 5/10/006, lx2-ict slowed to a crawl. The top command showed that the timeOfArrival" process started by the "Time Of Arrival/Lead Time" tool was consuming approximately 50 percent of the CPU cycles. The process didn't stop when the pane was cleared or with a simple kill pid. It required a kill -9 pid to stop it. At that point the workstation returned to normal speed. The tool had been loaded for several hours and may have even been loaded on more than one pane. The process was running even though the TOA tool was not loaded on any pane of the workstation. This process is not terminated when the pane into which it is loaded is cleared. This performance hit was detrimental to the warning/storm interrogation process. The tool is extremely handy and a necessary functionality.

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

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

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

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

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

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

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

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

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

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

1. After the OB6 Phase 3 installation, particularly the migration of the database and triggers from an HP-UX (Informix) to a Linux (PostgreSQL) platform, WFO SJU's English to Spanish translations of products on CRS failed to work. Here's how they do Spanish translations:
English products trigger a local perl script that translates the product.
2. Spanish products runs through CAFE, and the Spanish translation file within CAFE does a find/replace.
3. CAFE runs the transmitNWR and goes to CRS.

The problem has to do with some Spanish language character sets. One workaround is to run the application on the HP-UX box (which disappears after OB7.1). As noted by the OST, Linux OS RHEL3+ moved to the utf8 character set which broke a number of applications using older character sets. They further noted the following work-around: One (recommended) soln for running a program which makes use of old char sets on a RHEL3+ box is to set LANG=C" (HP locale) before executing the program on that box."

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

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

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

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

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

Problem. ADR Message Replace Problem. (DR 17376)

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

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

This new formatter is critical for the HazCollect OAT.

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

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

Problem. FFMP shapefile access. (DR 17357)

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

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

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

```
wwa_flood_wrn.preWWA (Areal Flood Warning)
wwa_flood_adv.preWWA (Areal Flood Advisory)
```

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

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

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

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

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

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

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

There are two attachments:

```
Xsect_ToggleON: Shows error and the top graphic in the product legend is toggled on.
Xsect_ToggleOFF: No error and the top graphic in the product legend is toggled off.
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THE NATIONAL WEATHER SERVICE IN ST LOUIS HAS ISSUED A

* SEVERE THUNDERSTORM WARNING FOR...
NORTHERN PIKE COUNTY IN NORTHEAST MISSOURI
EASTERN RALLS COUNTY IN NORTHEAST MISSOURI
SOUTHERN PIKE COUNTY IN WEST CENTRAL ILLINOIS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
from /awips/fxa/data/localization/scripts run:
```

```
./mainScript.csh -wwa
```

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

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

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

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

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

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

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

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

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

4/18/2006 14:49:07 KevinJ

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


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

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

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

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

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

1. Not all the options for the menu may be selected.
1. User must hold down mouse button one (MB1) in order to keep the menu up.
2. Menu pulls-up and does not pull-down as usual.
3. User is unable to select menu options from the lower section of the menu because that section is off the screen. Tearing off the menu and moving the menu is not a work around, because there is no room to even move the menu.
4. Once the menu is selected, it immediately disappears. The menu has the inability to stay up apparently because it is partly off the screen or close to the bottom of the screen. The user must hold down MB1 to keep the menu up.
5. When the user selects the scan menu, the menu is forced to the top of the screen because there is no room. Usually the menu drops down from the same level as the menu bar. Other menus will be forced to behave similarly when the D2D application is moved well to the bottom of the screen (Hold down MB1 over D2D title bar and move cursor down). With the D2D menu bar only a couple of hundred pixels from the bottom of the screen the menus are forced to pull-up and not pull-down as usual.

[Note: There is an attached image.]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The latest version of the csh (delivered with OB6) does not interpret 'escaped characters' like \n within echo commands in the same way it used to. This causes certain aspects of localization to fail (see example below). According to GSD, one way to handle this kind of thing that is less sensitive to the particular UNIX version one is running involves having the file list be put together with simple space delimiters, and then changing this:

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

to this:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

EWX, EYW, HGX, JAN, LUB, LZK, MAF, MLB, MRX, SJU (Super National Scale)
They do not see the problem at the other sites:

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

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

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

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

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

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

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

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

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

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

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

The observed 24hr precipitation amount is missing.

Problem. LSR: Distance Problem. (DR 17017)

2. When there are two cities/towns that are close to a storm report, the LSR GUI picks the city/town which comes first alphabetically instead of the city/town which is geographically closest.
3. For a storm report in a given county, the LSR GUI will select the city/town that is geographically closest to the report, but may be located in a different count (or in some cases even a different state).

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

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

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

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

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

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

```
Process|DS|listener|Inter-Gateway Communication
Process|DS|pollForData.pl|Internal-External Data Transfer
Process|PX2F|routerLdadDecoder|LDAD Decoder
Process|PX2F|routerStoreNetcdf|netCDF Storage
Process|PX2F|routerShefEncoder|SHEF Encoder
Process|PX2F|routerStoreText|Text Storage
Process|PX2F|DataController LDAD_ROUTER|LDAD Data Controller
Process|PX2F|CommsRouter LDAD_ROUTER|LDAD Comms Router
Process|DS|watchDogInternal.sh|Internal Watchdog Process
```

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

Problem. Tropical Cyclone Watch/Warning Product (TCV) Changes for 2006. (DR 16954)*Statement of Need Form*

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

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

5. *Justification*

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

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

NCEP/TPC will:

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

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

Add VTEC phenomenon code EW"

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

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

Problem. FFMP Basin Trace hatching. (DR 16950)

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

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

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

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

Prior to HazCollect, the SBN uplink processes did not need to have the active NCF site available because uplink requests would only come from the active site. With HazCollect, this no longer holds true because it is a valid operational scenario for the HazCollect processes at the inactive site to receive HazCollect messages that must be routed via the SBN. This will fail as currently implemented because the floating IP for the nmc channel will not be assigned at the inactive site.

The assignment of the uplink host name is done at start up of the comm1 service in start_comms_upl_send. This needs to be modified to know about the active NCF so that it can be built into the %UPLINK_HOST strings (e.g. - nmc-ancf). Once this is determined, the comm1 service must be stopped and restarted so any SBN traffic received will be sent to the active site.

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

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

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

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

Data --> New Source --> Grid.

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

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

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

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

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

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

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

Workaround. cd to customFiles/ and issue this command:

```
ln -s LocalCitiesInfo.txt cities.goodness
```

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

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

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

and changing it to this:

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

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

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

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

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

```
cd /awips/fxa/ldad/MSAS
rm tmp_data
mkdir tmp_data
mkdir tmp_data/raw tmp_data/raw_late
chmod -R 775 tmp_data
chown -R ldad:fxalpha tmp_data
```

Problem. LAPS Tool not working. (DR 16919)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Precip Water -- 0.49 (OB5)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Problem. SMM link is incorrect. (DR 16789)

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

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

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

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

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

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

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

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

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

Problem. WF: textdb anomalies. (DR 16756)

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

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

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

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

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

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

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

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

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

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

textdb commands (-r, -rw -rs, etc.) return a half dozen of the following errors before displaying the requested product:

```
sh: /awips/fxa/bin/getTestMode: not found
```

This is minor because (1) the requested product is output after the errors and (2) running textdb commands on the hp-ux data server will probably be a fairly rare occurrence. This error wasn't seen in earlier versions of OB6.

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

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

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

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

Problem. GFE 17.7: datasets defined by lat/lon coords will not populate in GFE (includes WNAWAVE). (DR 16712)**Problem. IFPS: Remove obsolete files. (DR 16707)**

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

Remove:

```
IFPS17k_RHE3_GFESuite_Linux.tgz
IFPS17m_RHE3_GFESuite_Linux.tgz
```

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

The files /etc/ha.d/cron.d/SITEpx1cron and SITEpx2cron are lost on the PXs when OB6 Phase 2 (rhel3u4) is installed. The corresponding files may also be lost on the other servers. The site-

customized versions of those files wind up being replaced by template or example versions that are nothing but comments explaining how to set up site-specific crons.

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

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

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

Fix small memory leak in RadarStorage and HandleGenericMsg.

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

GFS has 41 valid forecast times in Ob6. But D2D can only display 32 frames (up to 192 hours, 186 hour is not available now). To display forecasts later than 192 hours, users have 2 options:

Option 1: Use inventory instead of time series.

Option 2: Use time options to loop by 12 hours instead of 6 hours.

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

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

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

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

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

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

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

Workaround. Shut down ypbind and then restart it after the password change:

```
service ypbind stop passwd root
service ypbind start
```

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

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

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

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

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

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

When PDC is loaded then cleared, any programs loaded after clearing PDC will not be able to be loaded (e.g. radar, satellite). Something interesting to note, though, is when loading something from the Volume Browser after clearing PDC, the model selected to be loaded from the Volume Browser will load, but when you clear the model loaded, and then load PDC again, then clear PDC again, then load a model from Volume Brower, the model will then not be loaded. While looking through the logs I found a BUG in the IGC_Process stating: BUG: unable to get composite inventory. There is also an Alert Message that pops and says No data inventory for (e.g., water vapor).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Problem. LSR incorrect file check. (DR 16542)

When opening a file, the LSR GUI tcl code has to be more careful about error catching. On the nhdw, a file's permissions were incorrectly set and the open command did not catch the error as

expected (by the author) and thus, the method needs to be revisited and handled correctly. The end result was, the LSR GUI would not start, but this should not happen in the field as file permissions in the field are usually correct. This DR is intended for OB7. (See RA-032, this DR should be closed)

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

Problem. PDCtable shrinks when reloaded. (DR 16522)

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

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

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

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

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

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

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

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

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

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

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

network only while we are at it. Note that DR14874 (Transition NIS to DX) would also fix this problem, but we may need to fix it sooner than that.

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

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

WarnGen should only allow one to be selected, so when another IC is chosen, the original is deselected.

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

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

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

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

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

It has been reported to the NCF by several sites (OB4 and OB5 sites) they are unable to get requested products from a remote radar via the RMR. The NCF would find the ORPGReqMgr was up, but spinning through TCM KeepAlive messages at the remote radar - no data, just constant KeepAlive messages. This can go on for a long time, thus not only keeping the remote port 'captive' but precluding the requesting field from getting their products from that radar.

If the DialServer is terminated while the RMR session is 'active' this will cause the problem. Even when the DialServer is restarted and the offending ORPGReqMgr process is terminated, there might be another session in queue and the same problem CAN (not always) occur.

An ingest restart will cleanly terminate all processes, but if the DialServer fails for some reason, the ORPGReqMgr process is then owned by the system '1' and will launch the problem. During a test today the TCM KeepAlive's went on for 30 minutes until they suddenly stopped. Testing took place yesterday on TBW3 (OB6 baseline) and on TBDW (OB5).

Problem. SCAN and FFMP Data Monitor pages fail because of tbwi (the new TDWR radar). (DR 16385)

SCAN and FFMP both attempt to look at data directories of tbwi that do not exist causing the CGI scripts to fail (see errors in px1f:/usr/local/apache/logs/error_log. The workaround is to create those directories for TBWI:

For FFMP's monitor to work:

```
mkdir /data/fxa/radar/tbwi/tstorm
```

for SCAN's monitor to work:

```
mkdir -p /data/fxa/radar/tbwi/DHR/layer0/res1/level256
```

```
mkdir -p /data/fxa/radar/tbwi/CZ/layer0/res1/level16
```



```
mkdir -p /data/fxa/radar/tbwi/VIL/layer0/res4/level16
mkdir -p /data/fxa/radar/tbwi/STI
mkdir -p /data/fxa/radar/tbwi/Z/elev0_5/res1/level16
mkdir -p /data/fxa/radar/tbwi/MD
mkdir -p /data/fxa/radar/tbwi/TVS
mkdir -p /data/fxa/radar/tbwi/DMD/netcdf
```

Problem. Warning sent out with wrong AWIPS ID (Ref OB5-P DR 16346). (DR 16345)

At JAX, a MWS product was sent out with an SVR AWIPS ID.

Problem. OB6-NCF AF: Hazcollect Product TTL . (DR 16339)

Add TTL option to comm_client so that it is easier for Battelle to know when to initiate a failover.

Problem. Logging inconsistencies make it difficult to track product processing. (DR 16325)

Logging on the lx is very difficult to follow. For example, when trying to track an HWR NWS transmission, the transferNWS log is in /data/logs/fxa/display/localhost:0.0/20050615. The handleOUP portion is not logged anywhere that I can find. The distributeProduct log is in /data/logs/fxa/display/20050615. It would be helpful if all of the processes on the same machine that are part of the thread of sending out a single product logged in the same directory. This is not new to OB6.

Problem. responses to archive requests via X.400. (DR 16320)

When an OB6 site sends a request to the NCF archive via SMTP, the response is sent via X.400, and the response browser never updates even though the requested products are received and available.

Problem. Disable local overrides for templates removed from warnGen (Ref DR 16261). (DR 16293)

In DR 16261, templates were removed from warnGen because the responsibility for these warnings now lies with GHG. Some sites may have custom version of these templates that override the default templates. These local overrides need to be disabled.

Problem. GFS grids needs 36 Frames in order to display the complete 240 hours. (DR 16178)

The GFS40 and GFS90 grids cannot be fully displayed in the D2D. These grids include 36 frames whereas the D2D has a max of 32 frames.

Note: The last 4 frames of the grids can be viewed individually by using the inventory feature.

Problem. AF OB6: Linux NTP broadcast clients failing to synchronize to the DX (Ref OB5 DR 16127). (DR 16128)

Linux NTP broadcast clients (cp's, px's, lx's, xt's, ...) are not synchronizing time with the DXs.

Problem. SCAN VIL Density: combine 4km and 1km routines. (DR 16059)

Original version of code split several routines to handle 4km and 1 km grids. Will now combine these routines to capitalize on common code.

Problem. RHE3 OB6: Selecting WarnGen Flash Flood Warning causes a (frame refresh) delay (Ref OB5-P DR 16100). (DR 16028)

Selecting Flash Flood Warning from WarnGen causes a slight delay before the user is able to do anything in the large pane. The more frames loaded, the longer the delay.

It almost appears that each frame is refreshing.

The delay also occurs when moving to any other Product Type while the Flash Flood Warning product button is toggled on.

Problem. CLIMATE: Eliminate redundant precipitation and snowfall amount phrase. (DR 15962)

When building the NOAA Weather Radio/CRS broadcast text for transmission (e.g., output_am_XXX.nwr), the Focal Point uses a GUI (Report Format) to select the data he/she deems important to the listening audience. If snow is flagged and snow occurs, CRS reads "2.3 inches of snow fell today." If NO snow fell today, CRS reads "No snow fell today." If no precipitation of any kind occurred, CRS reads "No precipitation occurred today. No snow fell today." This redundancy needs to be resolved so that the CRS reads "No precipitation occurred today."

Problem. CLIMATE: Re-label snow on ground to 12Z snow on ground in GUI and F6. (DR 15961)

The Display Station Daily Climate Values Interface GUI currently uses the label Snow on Ground. OCWWS (Ron Berger) has requested that it read "12Z Snow on Ground". Additionally

Problem. D2D hangs for several minutes when run with GFE on the same monitor (Ref OB5 DR 15878). (DR 15881)

If you launch D2D and GFE on the same monitor, the D2D will hang for several minutes. If you do a top command on the workstation, the CPU usage for the fxaWish process goes to near 100% for several minutes. After several minutes, both the D2D and GFE are usable again.

Problem. APS does not recognize 5-character wmoID data designators (TTAAii) (Ref OB5 DR 15858). (DR 15870)

At FWD, requests for FTWWA4T are not being formatted correctly, since the returned product has the header WAUS1 KDFW ...

Problem. CL: Revise calculation of 12Z snow depth. (DR 15866)

This is how the daily snow depth for the daily morning climate must work. Morning climate always summarizes yesterday's information:

1. Initialize snow depth to missing. Then,

2. Read the snow depth data from the DSM, if available. Continue if value is still missing.
3. Read the 12Z snow depth from the METAR (the 4/sss group), if available. Continue if value is still missing.
4. Read the 12Z SCD, if available. Continue if value is still missing.

The same paradigm holds for the intermediate/evening climate products, except that you need to check to ensure that you're dealing with today's observations. If there is no snow depth in either the SCD or metar, then the default is 0.0 else the default is M missing

Problem. WFOA: Discontinue building unnecessary executables on HP. (DR 15689)

With the port of most of WFOA to linux in OB6, many of the exe's being built in the HP build are no longer needed. This will help decrease the time for the HP builds of WFOA. Current time for a full clean build is approximately 15 hours.

The makefiles creating these exe's should be modified to discontinue building on the HP.

Problem. Integrate FSL OB5.1 code into OB6 - WarnGen Hydro - (revolving) (Ref OB5 DR 15687). (DR 15688)

Integrate OB5.1 code into OB6. See the WarnGen Hydro Requirements listed in the Action Description for the functionality being integrated.

Problem. Obsolete CDL and HTML files for AVN/MRF grids. (DR 15608)

In OB6, GFS GRIB2 grids will be added thus GRIB1 AVN/MRF grids can be phased out. The following obsolete files should be removed from PVCS by NGIT:

```
D-2D/src/dm/grid/
avn201.cdl
avn202.cdl
avn203.cdl
avn211.cdl
avn213.cdl
avn225.cdl
mrf201.cdl
mrf202.cdl
mrf203.cdl
mrf204.cdl
mrf205.cdl
mrf213.cdl
D-2D/src/dataMon/
NHEM201AVN.html
NHEM201MRF.html
CONUS202AVN.html
CONUS202MRF.html
CONUS213AVN.html
CONUS213MRF.html
```

CONUS211AVN.html
AK203AVN.html
AK203MRF.html
HI204MRF.html
PR205MRF.html

Problem. Grid clipping is hardwired to regional scale which does not work well for AK sites (Ref OB5 DR 15585). (DR 15586)

Grid clipping in AWIPS up to now has been hardwired to center over the regional scale or its analog, which for Alaska is the whole state. This does not work up there when they need a small area clipped out over their WFO.

The fix is to enhance gridUtil.csh such that one can optionally pick a different area to center grid clips over than the fixed regional scale. The fix is potentially useful to other sites as well.

4.11 OB6 b0a

Problem. Setting up NWRWAVES triggers causes all triggers for the products set up to fail. (DR 16635)

After setting up NWRWAVES triggers, triggers for the products set up for NWRWAVES stopped working. Here is what we added to /data/fxa/siteConfig/textApps/siteTrigger.template:

```
SFOTORSTO /awips/adapt/NWRWAVES/nwrwaves.csh  
SFOSVRSTO /awips/adapt/NWRWAVES/nwrwaves.csh
```

After adding these lines and running mainScript.csh -trigger we no longer got triggers from SFOTORSTO and SFOSVRSTO.

Problem. Hydro/VTEC OT&E: Test Mode Control application hung on lx5-tbw3 and xt5-tbw3. (DR 16628)

During Hydro/VTEC OT&E testing, the Test Mode Control Program hung on lx5-tbw3 and xt5-tbw3 when switching to TEST mode. Caused by having a different user logged into the xt than on the lx. Reboot of both lx and xt did not clear up the problem.

Problem. Hydro/VTEC OT&E: WMO id incorrectly inserted into MND header upon SEND from textWS. (DR 16627)

During Hydro/VTEC OT&E testing, while in TEST mode and issuing either an FLW or FLS product, the product looks ok when created but when you hit SEND and OK at the stop sign, you get an error because the WMO header info was inserted into the MND header. Closing and restarting D2D and the textWS stopped the problem.

Problem. Hydro/VTEC OT&E: lx1-tbw3 experience a SLO. (DR 16621)

During Hydro/VTEC OT&E testing, lx1-tbw3 experienced a spontaneous log out (SLO) while running WarnGen Areal Flood Warning Scenario for immediate cause (IC) set to ice (IC). All

lx3 display logs have been saved to /data/local/lx1_SLO. This is the first reported SLO in a long, long time.

Problem. Hydro/VTEC OT&E: Several more instances of misleading or incorrect QC messages on FLS CON, CAN, EXP. (DR 16620)

During Hydro/VTEC OT&E testing, received several more instances where the QC message template may be incorrect" when doing CON

Problem. Hydro/VTEC OT&E: inconsistent behavior for selecting non-contiguous counties in warnGen and the lat lon boxes created. (DR 16605)

During Hydro/VTEC OT&E testing, when creating an FLS, warnGen allows you (correctly) to select non-contiguous counties with the mouse. However, the lat lon boxes that are created as a result are connected (not separate). (Text product WGUS81 KBOX 161416 available).

Problem. Hydro/VTEC OT&E: need improvements to calculating variables in RiverPro. (DR 16604)

During Hydro/VTEC OT&E testing, while testing RiverPro, it was noticed that there is a need for nationally created RiverPro templates containing a set of comprehensive condition statements that will capture correct above/below flood stage, create, crest time, event begin/end time. As time progresses during an event, the relationship among the latest obs, next valid forecast, etc., changes and therefore the algorithm calculations of the variables listed above change and can be incorrect which in turn, result in incorrect

VTEC and product wording (see DR 16603). The algorithms are extremely sensitive to small changes in obs, forecast time, and the relationships among these variables.

Problem. Hydro/VTEC OT&E: multiple discrepancies in generated text messages (FLS and FLW) on xt3-tbw3. (DR 16600)

During Hydro/VTEC OT&E testing, while running RiverPro scenarios, the following discrepancies were noted in the generated text messages:

1. Scenario 3, step 1, FLW: The flood begin time is all zeros in the H-VTEC line.
2. Scenario 3, step 2, FLS: The action code EXT should be CON; flood begin time is all zeros.

Problem. Hydro/VTEC OT&E: The product expiration time range is shorter than expected. (DR 16599)

During Hydro/VTEC OT&E testing, discovered that the expiration (EXP) action is not available at the 10 minute mark but it was available at the 9 minute mark. The times are prior to the expiration time in the product. It appears that the EXP action is available at +9 mins to -9 mins rather than the expected +10 mins to -10 mins. (during testing of FLS on lx3-tbw3)

Problem. Hydro/VTEC OT&E: the warnGen map displayed different counties than original map when COR issued to FLWBOX on lx5-tbw3. (DR 16592)

During Hydro/VTEC OT&E testing, while running an Areal Flood Warning Correction test, the COR to the FLWBOX was ok. However, the warnGen map displayed counties not in the first warning. (Screen capture available.)

Note (V.D. - Jim Ramer was able to replicate the problem. To replicate, create an Areal Flood Warning. Move the box where you want it, then toggle the covered counties on so the entire county is included in the warning. Send the warning. Next, create a correction based on this warning. Often, additional bordering counties will now be included on the display. The wording of the warning will not include these additional counties, just the display is incorrect.

Problem. Hydro/VTEC OT&E: Hydro QC errors on flood advisory FLSBOX and FLSBOX COR on lx2-tbw3. (DR 16589)

During Hydro/VTEC OT&E testing, created a new hydrologic flood advisory and the QC software popped up a warning stating that the headlines may be inconsistent with the VTEC coding (see tbw3 /home/koppsje/hydroqc.png). Then, tried to issue a COR and received another QC warning (see tbw3 /home/koppsju/hydroqc.png1).

Problem. Hydro/VTEC OT&E: RiverPro crest time error and flood end time error. (DR 16587)

During Hydro/VTEC OT&E testing while running the RiverPro test scenarios on lx1-tbw3, the displayed crest time was wrong and the EXT was recommended with a flood end time in the past. RiverPro does not recommend CAN with out obs below flood stage (obs not equal to flood stage). Screen captures available. Jeff Zimmerman has copies of screens.

Problem. RFC postgres trigger functionality does not work. (DR 16565)

In testing I discovered that data base triggers were not working on TBDR. At first I thought it was just an error in ./mainScript.csh -trigger. RSA-hydroSiteConfig.txt had a blank line between "www PHX" and "SRUS71 KWBC," which resulted in a bad fxatextTriggerActions.txt file and a database error while trying to run ./mainScript.csh -trigger.

Once the line was removed, ./mainScript.csh -trigger was run without any errors but triggers were still not working.

TBDW (WFO) triggers seem to be working correctly.

Workaround. Remove blank lines in RSA-hydroSiteConf.txt and also remove lines with rrr in RSA-ldadSiteConfig.txt.

4.12 OB6 b0**Problem. WarnGen: WarnGen Migration scripts need to be more verbose. (DR 16609)**

The WarnGen migration scripts need to provide more feedback to the user. In particular the following scripts need some echo commands added to them: ob6-initMigHost.csh, ob6-

newTemplates.csh, ob6-oldTemplates.csh, ob6-wgnPratice.csh, ob6-tempVTEC.csh, ob6-migrateDone.csh, and ob6-syncHost.csh

Problem. WAX OB6: Archive GUI still Displays 7 days. (DR 16568)

With the fix for DR 16498 we are only Archiving off 5 days of data, but the Archive Compressor GUI is still showing 7 day worth of data. The user will see two days in the GUI with a day and no date. This does not cause any problems with the Archive software, and appears to be only a cosmetic issue.

4.13 OB6 b2

Problem. RHEL3u4: Faillog broken with RHEL3u4 upgrade. (DR 16654)

In order to fix DR 16369 the default /etc/pam.d/system-auth file will be used instead of the AWIPS one. As a result the faillog capability for the Linux Workstations and xTerms will be broken.

4.14 OB6 b3

Problem. RHEL3u4: rp_racip_config.sh fails to run during upgrade. (DR 16681)

The rp_racip_config.sh which is run at RFCs to re-IP the RAC ports on the RP's fails to run during install. The script looks to be in a DOS format and needs to be converted to UNIX. Also the script is looking for a tar file which is not present and fails to install racadm. As a result the RAC port does not get updated.

4.15 OB6 b4

Problem. build_dns does not update Linux Workstations/xTerms above nine. (DR 16696)

The build_dns script does not update Linux workstations and xTerms above lx9/xt9. There are several sites that have lxa-lxj/xta-xtj and the scripts does not update them.

Problem. OH: RAX database tokens missing from .Apps_defaults. (DR 16692)

The following RAX database tokens are missing from the .Apps_defaults file:

```
adb_name      : adb_ob1sss # RFC archive database name
adb_server    : adbs      # RFC archive server name
```

As a result none of the RAX processes can connect to the Informix Database. The critical one is adb_server. The other is not needed.

4.16 OB6 b5

Problem. HYDRO/VTEC: Warning Expiration boxes are not working correctly. (DR 16736)

While retesting the HYDRO/VTEC DRs generated during OT&E, it was noted that the warning expiration boxes are not working correctly. This is related to the Failure of DR 16575. The warning expiration window appears to be working correctly for TOR, SVR, SMW, and FFW products. The problem is that a textBotifyExpiration.tcl message appears whenever you transmit a statement. These boxes will become extremely annoying during severe weather. BCQ also reported the problem. Testing occurred on lx2-tbdw.

Problem. HYDRO/VTEC: In EXT, the forecaster is unable to change the basis statement and CTA. (DR 16735)

While retesting the HYDRO/VTEC DRs generated during OT&E, it was noted that when doing an Extension in Time, the forecaster is unable to use the previous warning's basis statement and Call to Action statement. The forecaster is unable to change the basis statement and CTA in the WarnGen GUI. The default is to use Trained Weather Spotter reported Flash Flooding from a Thunderstorm over the warned area" with no CTA. Testing occurred on lx2-tbdw."

Problem. HYDRO/VTEC: Loss of VTEC with creation of Hydro product. (DR 16734)

While retesting the HYDRO/VTEC DRs generated during OT&E, it was noted that VTEC was lost while creating a product in WarnGen. First, the ETN was not recognized in the follow-up list on the WarnGen GUI. While reproducing the product (flood advisory), VTEC came back into the product on the text workstation. All of this occurred while in Test Mode. After closing WarnGen and restarting it, the problem did not recur. Testing occurred on xt3-tbdw.

4.17 OB6 b6

Problem. NWWSSchedule and NWWSPRODUCT do not seem to handle serial disconnects. (DR 16764)

During both SyAT and SyAT Dry Run testing we have noticed that NWWSSchedule and NWWSPRODUCT are crashing. It seems to correspond with changes to the serial connection going from the PX to our Weather Wire simulator. These serial disconnects may be isolated to our test configuration since we have an ABCD switch to allow our Weather Wire simulator to be connected to any of the testbed's PXs. Additionally our tests involve switching between PXs via the VIR switch.

This may not be an issue when NWWSSchedule and NWWSPRODUCT have a real Weather Wire connection.

It would be nice if these processes could handle the serial disconnects - but this may not be necessary at an operational site.

Problem. INSTALL: prepare_OB6 fails to run at a RFC. (DR 16755)

There was a check put into prepare_OB6 to make sure a site has install IFPS 17.6 before installing OB6 Phase 3. The problem is that IFPS is not installed at a RFC. SO the check will fail and the script will exit. This is a two line change to prepare_OB6 to check the SITE_TYPE before doing the IFPS Release ID check. The fix is ready to be check in. The work around it to have the RFCs create the /awips/IFPS_Release_ID file with 17.6 in the file; then remove the file after the prepare_OB6 script is run.

Problem. DB OB6: restore_pgdb table option not working. (DR 16749)

The restore_pgdb is used to restore the Postgres databases. You can use it to restore a single database or all the databases, and this work. The script also has an option to restore a single table and this is not working. When you restore the table it is being put in template1 and not the database it belongs to.

4.18 OB6 b6a**4.19 OB6 b8****Problem. Table Access privileges incorrect for Postgres databases on OB6 Beta sites. (DR 16780)**

The table access privileges on the Postgres databases are incorrect. The privileges should be set to pguser, but are currently set to postgres. This is a result of DRs 16009/16717 where PGUSER was set incorrectly to postgres. As a result of this users are unable to access/modify values in the databases. This is affecting climate, lsr, and other applications. The databases with the incorrect privileges are fxatext, hmdb, lsldata, ifps_ccc, and wwa_ccc. OHD databases are unaffected. Currently there are only two ways to fix this:

1. Drop the databases in question and re-migrate them to postgres, and loose possibly months of data.
2. Drop the databases in question, do a pg_restore of the databases from the backup, and then issue the following sql commands on each table in the database
revoke all on table_name from postgres;
grant all on table_name to pguser;

This only affects the pre OB6 Beta 8 sites, and not a fresh OB6 install. An e-mail has been sent to Dave Cramer of Postgres to see if there is an easier way to fix this, but this must be fixed ASAP. A script is ready to fix this problem, and takes about an hour to run and requires ingest to be down and site logged out.

[**Note:** If any of the databases are corrupted. This Step one will need to be done for that database.]

Problem. RHEL3u4: Sound does not work after upgrading the kernel on the xTerms. (DR 16777)

After upgrade the kernel to 2.4.21-32.0.1.EL sounds does not work on the xTerms. I have found several entries in the Dell Forums complaining about i810_audio-2.4.21p-6dkms not working after upgrading the kernel. The suggested fix is to install i810_audio-2.4.21p-5dkms version till a new version is available.

4.20 OB6 b10**Problem. WF OB6: PurgeProcess not killed when px1apps fails over. (DR 16801)**

DR 15629 changed the way that the purgeProcess is run. Instead of being in the startIngest.dx1 script it was moved to a cron which runs every 10 minutes. The problem is that is px1apps is failed over the purgeProcess is not killed and there could be the possibility of two purgeProcesses running at the same time. So the px1apps script need to be modified in order to kill the purgeProcess when the px1apps package is being halted.

Problem. Need to cleanup /data/fxa/backup_root and /data/fxa/install_root. (DR 16746)

During OB6 Phase 2 two directories are created under /data/fxa. This directories eventually need to be cleaned up. The directories in question are /data/fxa/backup_root and /data/fxa/install_root. This DR is intended for OBx.

4.21 OB6 s1**Problem. RiverPro: Needs to allow for forecasters to be working on 2 separate rivers in the editor at the same time. (DR 16224)**

RiverPro needs to allow for forecasters to be working on 2 (more than 1) separate rivers in the editor at the same time. Currently, you are restricted to a single Create --> Issue sequence by 1 forecaster. The editor does not allow 2 people to create at the same time" or issue at the "same time." The need to have multiple create/issues arises during busy situations."

Problem. In WarnGen QC, the cursor focus should follow the highlighting. (DR 16217)

This is an enhancement request. WarnGen QC, highlights the text requiring change but the cursor focus stays at the top of the document. It would be more user friendly if the cursor focus moved to the highlighted text. (Targeted for OBx)

Problem. Warnings are disappearing in WarnGen. (DR 16051)

2 FFWs disappeared after issuing CORs. The had ETN 0002 and 0005. All other FFWs/CORs worked fine. Nothing was done differently with the two warnings that disappeared.

4.22 OB6 s7

Problem. WARNGEN uses duration setting from current time for EXT option. (DR 16270)

When doing an ext for a flood product, the new expiration time that will be used is hard to determine. WarnGen uses the duration setting, which is maintained from the last issuance of that ETN. This duration is added to the current time.

So for a FF.W originally issued for 45 minutes with an expiration time of 22z, doing an extension at 2145 will result in a new expiration time of 2230z. This will not be intuitive for the forecaster and will cause confusion.

4.23 OB6 phs1

Problem. Dislike new way to start D2D. (DR 16452)

"Several comments of dislike of the 'new' extra step when left clicking to start D2D. When you left click, you get a button pop-up saying 'AWIPS' which you have to select in order to get the AWIPS startup menu."

Problem. Inconsistent mouse behavior. (DR 16451)

"On desktop behavior, we noticed some inconsistencies in how the mouse pointer behaves between the different screens. On screen 0 the mouse always appears to behave normally, however, on screens 1 and 2 we observed a number of occasions where the mouse pointer would change to a large 'X', when it really should have been a normal pointer. You can easily see this behavior by popping up the root window menus. On screen 0 when the root window menu comes up, you get a normal pointer. On screens 1 and 2, you get the 'X' pointer. Most critically, we observed this behavior within WarnGen windows. The 'X' mouse pointer within a WarnGen window could mislead field staff into thinking that something is wrong."

4.24 OB6 phs2

Problem. MDCRS plots/ACARS soundings not working in OB6 Phase 2. (DR 16460)

After the installation of OB6 Phase 1, the MDCRS data was no longer available. The MDCRS plots are not available and the ACARS soundings are also not available.

4.25 OB6 phs2/3

Problem. RHEL3u4: Issues with NWWSchedule and NWWSPRODUCT after OB6 Phase 2. (DR 16689)

Site EAX has had issues with NWWSchedule and NWWSPRODUCT crashing with OB6 Phase 2. It looks like the NWWSTransmit hangs and no more products are sent out. Eventually NWWSchedule will crash which causes NWWSPRODUCT to shutdown.

4.26 OB6.X

Problem. Set Time Feature Hangs D2D. (DR 17630)

Ray from CYS reported to the NCF that when they attempted to use the Set Time Feature in D2D, it would hang the whole application.

Steps to re-create:

Left click on time display in lower-right hand corner of D2D. This displays the set time GUI.

This action will sporadically cause an application stating that the Grab Failed..."

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

Optional issuance time phrasing does not contain the timezone(s) of the counties/zones in the broadcast

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

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

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

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

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

4.27 OB6.0.1

Problem. Key West Site Identifier Change (IFPS). (DR 17109)

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

Problem. CLIMATE: New Time Zones Not Reflected for Stations Switching from EST to CDT. (DR 17083)

Issued the Morning Daily Climate product for these stations (Bloomington, Columbus, Fort Knox and Huntingburg). Verified the text message output - the first three station time zones changed to 'EDT' as expected. However, the Huntingburg time zone displays as 'EDT' instead of 'CDT'. Because Huntingburg is located in Dubois County, it is switching from Eastern time to Central time at April 2, 2006 at 2:00AM.

4.28 OB6.0.2

Problem. afos2awips.txt in noaa1 does not contain necessary changes for Key West ER. (DR 17348)

afos2awips.txt in noaa1 does not contain necessary changes for key west ER. We have to get the file from TOC web site and make some necessary changes in order to make it work

Problem. Installation scripts for OB6.0.2 Key West ER. (DR 17338)

Main installation scripts and other required files for OB6.0.2 Key West ER

Problem. SAFESEAS Table Shrinks When Zooming-In. (DR 17305)

With SAFESEAS up, click on any zone under the Area_Id column that contains data to zoom-in. The SAFESEAS Zone Table will shrink to a height where you can only see the column headers. It will not allow you to resize. Please note that while this problem was seen during Key West testing, it was not caused by the Key West changes. As noted above, the bug has also been seen recently on NHDA (OB7.1, LWX localization).

Problem. LSR: KEY WEST Site ID Changes. (DR 17120)

The site identifier for the key west wfo needs to be changed from EYW" to "KEY". This change must be applied to all flat file DB's that LSR uses."

Problem. IFPS:remove obsolete files from workset. (DR 17107)

The following files should be removed from the OB6.0.2 workset and ANY CM ASSOCIATED WORKSETS. In OB6, most of the following files were released on CD to the field. These files were not in the IFPS:OB6 workset, but were left over in some CM workset that is used for the final distribution -- thus I did not see them. Apparently some of these were removed from the IFPS workset, but not the integration workset used by Raytheon/Keane for distribution of the release.

Most of these files were OB5 IFPS17 documentation and release note files which are obsolete for OB6, and OB6.0.2.

- gfe/CHANGES_IFPS17a.html
- gfe/CHANGES_IFPS17b.html
- gfe/CHANGES_IFPS17c.html
- gfe/CHANGES_IFPS17d.html
- gfe/CHANGES_IFPS17e.html
- gfe/CHANGES_IFPS17f.html
- gfe/CHANGES_IFPS17g.html
- gfe/CHANGES_IFPS17h.html
- gfe/CHANGES_IFPS17i.html
- gfe/CHANGES_IFPS17j.html
- gfe/CHANGES_IFPS17k.html
- gfe/CHANGES_IFPS17l.html
- gfe/CHANGES_IFPS17m.html

gfe/CHANGES_IFPS17n.html
 gfe/CHANGES_IFPS17o.html
 gfe/CHANGES_IFSP17p.html
 gfe/CHANGES_IFPS17q.html
 gfe/CONFIG_IFPS17a.html
 gfe/CONFIG_IFPS17b.html
 gfe/CONFIG_IFPS17c.html
 gfe/CONFIG_IFPS17d.html
 gfe/CONFIG_IFPS17e.html
 gfe/CONFIG_IFPS17f.html
 gfe/CONFIG_IFPS17g.html
 gfe/CONFIG_IFPS17h.html
 gfe/CONFIG_IFPS17i.html
 gfe/CONFIG_IFPS17j.html
 gfe/CONFIG_IFPS17k.html
 gfe/CONFIG_IFPS17l.html
 gfe/CONFIG_IFPS17m.html
 gfe/CONFIG_IFPS17n.html
 gfe/CONFIG_IFPS17o.html
 gfe/CONFIG_IFPS17p.html
 gfe/CONFIG_IFPS17q.html
 gfe/IFPS17o_RHE3_GFESuite_Linux.tgz
 gfe/IFPS17q_RHE3_GFESuite_Linux.tgz

The following file should be removed from the IFPS:OB6.0.2 workset and any associated CM worksets. This file is obsolete and has been replaced with the updated version of the GFE software:

gfe/OB6a_RHE3_GFESuite_Linux.tgz

4.29 OB6 Final

Problem. Stop sign" dialog box for Panic mode on Text Workstation displays incorrect text message." (DR 16854)

In Panic mode, after the user has sent the HAZCollect products the Stop sign" dialog box for Panic mode on the text workstation should display the correct text message indicating that "The Workstation is in PANIC mode" instead of "The Workstation is in Test mode" or "the Workstation is in Practice mode".

Problem. Sound not working after new user logs in on some workstations. (DR 17138)

The artsd is locking /dev/dsp. /dev/dsp remains owned by previous user. A workaround was crated to edit /home/<user>/.kde/share/config/kcmartsrc. A timeout of five seconds was added in the arguments line. The kcmartsrc file was pushed around to all users who had not done the workaround, and so now they just need to log out and back in for it to work.

5.0 RELEASE OB5 AND PRIOR

Problem DUMPTS command halts with a FORTRAN Error. (DR 17865)

The DUMPTS (dump time series) command in PRDUTIL (NWSRFS) halts with the following output:

```
PGFIO-F-235/formatted write/unit=98/edit descriptor does not match item type.e
```

The input file is correct. In fact it is one of the examples in the documentation.

Problem. FFMP: default all-and-only-small-basins yields no names (xxxxx). (DR 17815)

If FFMP is started with the default layer set to All and Only Small Basins, each basin entry in the Basintable will not have a name and be labeled with "xxxxx". Early diagnosis of this problem (back when this issue was first recorded in MDL's FRA) incorrectly concluded that not all names were lost and that only some were labeled with the "xxxxx", which is as expected. Recent testing yielded verification that indeed all were being labeled as "xxxxx", thus this needs to be fixed. Note that this only happens when the All and Only Small Basins is the default layer (which we have consistently recommended against) and is worked around by changing layers to another layer, then back to All and Only Small Basins.

Problem. Missing information in county_type.abbrev for SJU. (DR 17683)

The data file /data/fxa/nationalData/county_type.abbrev needs to be updated with the information for Puerto Rico and the Virgin Islands.

Problem. Unable to retransmit a short-duration warning. (DR 17576)

When VTEC was first implemented in short-duration warnings, the ability to retransmit a VTEC warning was in place (see weather.gov/os/vtec/ReTrans.html) In OB5 this functionality disappeared. This problem continues in later builds.

This causes a problem because WFOs cannot retransmit a warning to users who may have missed the transmission (EMA, sherrif). The ETN is always incremented which gives the impression of a completely new warning and causes a new NWR alarm, TV crawl, verification problems, etc.

I tried a suggestion by Xiangbao Jing and still saw the ETN increment. It also had the side effect of causing the original warning to be removed from the textdb. The log files from lx3-nmtw are being captured and can be provided if needed.

Problem. Remove unused NAM40 and NGM80 precipitation products. (DR 17396)

The following parameters are not generated, and should be removed from the D2D Volume Browser: NAM40 - 36hr and 48hr Snow Accumulation; NAM20 - 48hr Accumulated Precipitation; NGM - 48hr Snow Accumulation; and NGM80 - 48hr Accumulated Precipitation.

Problem. Sites are reporting SUNNY or MOSTLY sunny at night when it should stay clear (DR 17174)

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

WIZ001-002-006>008-014>016-023>028-191000-
 NORTHWEST WISCONSIN
 CITY SKY/WX TMP DP RH WIND PRES REMARKS
 SUPERIOR ARPT CLEAR 1 -6 71 SW13 30.26F WCI -16
 ASHLAND CLEAR 2 -8 64 SW14 30.26F WCI -16
 HAYWARD CLEAR -1 -8 73 SW3 30.28F
 RICE LAKE PTCLDY 0 -8 71 SW6 30.35F WCI -12
 LADYSMITH MOSUNNY -4 -4 100 CALM 30.35F
 <-----Here
 EAU CLAIRE CLEAR 1 -8 67 SW9 30.39F WCI -14
 NEW RICHMOND CLEAR 1 -4 78 SW8 30.38F WCI -12
 OSCEOLA PTCLDY 1 -6 71 SW6 30.40F WCI -10
 SIREN PTCLDY 3 -8 60 SW14G20 30.32F WCI -15

Problem. FFMP: relocation file cleanup. (DR 17158)

In the FFMP localization, old basinLayer*.dat files are not removed, which means, if subsequent localizations have different basinLayer?.dat files, some old files may stick around and cause problems in display if chosen. This should be rare, and is likely at the 'high number' end (the 'smaller' aggregation level), so it may not be used much anyway. No site has reported any problems yet (and we have had all of OB5 for things to come in). This DR is intended for OB7.2.

Problem. MSAS observed wind plots are about 20 degrees counterclockwise to the METAR winds. (DR 17108)

The MSAS observed wind display is erroneous in that they are about 20 degrees counterclockwise (to the left) of the winds from the METAR observations. GSD is aware of this problem and they will "... make a note to unrotate the winds before the netCDF storage in a future version..."

Problem. GFE: WxPhrases: Matt Belk - visibility should filter rankList. (DR 17100)

This is a GFE Text Formatter Infrastructure Enhancement. The WxPhrases module's visibility_words function should filter the rankList so we don't consider visibilities from Wx subkeys which aren't to be reported in the text.

Problem. GFE: ViewWCL: aborts if no data within 6 hours of present. (DR 17099)

This is an improvement to the ViewWCL procedure that is used for the Watch-By-County program. Currently if this procedure is run and there is no data available or if the data is older

than six hours, the procedure aborts ungracefully. The change will display a message indicating that the data is old or no data is available.

Problem. GFE: Total Snow and Storm Total Snow Changes. (DR 17098)

This is an enhancement to the GFE Text Formatter Infrastructure. This changes the behavior of the Storm Total and Total Snow phrases and how the data is analyzed to determine the totals.

Problem. GFE: Infra: MultipleElementTable for update issuances. (DR 17097)

This is a GFE Text Formatter Infrastructure enhancement. When the text formatter that contains a Multiple Element Table, such as the FWS, is run during the day as an update, the product's Multiple Element Table data values are not updated since the sampling period covers the entire period and not just the period from the update time to the end of the period.

Problem. GFE: ScalarPhrases: Tom Springs fix for incorrect sky wording. (DR 17096)

This is an enhancement to the GFE Text Formatter Infrastructure. In some situations the Sky phrase wording was incorrect or not clear. Adding time descriptors to the sky phrase improves the readability.

Problem. GFE: Null swell does not work. (DR 17095)

This is a change to the GFE Text Formatter Infrastructure to ensure that the Null Swell phrase in marine products works properly in all situations. In previous versions it was possible to not get Null Swell phrases when they were desired.

Problem. GFE: VTEC: ETN Not resetting during year change (ETN did not reset to 0001 for RB.Y at PQR). (DR 17094)

This change is an improvement to the VTEC Active Table Sharing algorithm. This will help ensure that VTEC active sharing logic will not update records that are determined to contain events that were initially issued from last year even if the sharing record indicates this year's issuance. This will help prevent the VTEC active table sharing logic to override a local record that indicates an event initially issued from last year which can prevent the ETN being reset to 0001 for the new year.

Problem. RF OB5 Incorrect processing of non-zero value of @R. (DR 17070)

When the @R card is set to something other than 0 (therefore grouping stations for analysis) the problems were noted within IDMA and the MAP preprocessor. See /fs/hseb/bugs/r27-12/readme.txt for more information.

Problem. RF OB5 SHEFPOST time series limits are too small. (DR 17042)

The work buffer in SHEFPOST is currently limited to a maximum of 200 time series values. The buffer needs to be increased to hold approximately 1000 values.

Problem. RF OB5 Incorrect processing associated with leap year in ETSGEN. (DR 17041)

When running with a SaveCODate of 03-01 an error will show up every 4 years.

n running with a SaveCODate of 03-01 an error will show up every 4 years.

Problem. RF OB5 FFGUID produces unrealistic headwater guidance. (DR 17040)

The headwater guidance produced by ffguid is not realistic. The 6 hour HFFG values are extremely large with the 12 and 24 hour values much lower than the 6 hour. See /fs/hseb/bugs/r26-23 readme.

Problem. F6 Product missing dates. (DR 17021)

Missing dates from F6 product

24h greatest rainfall doesn't have the date, but has amount

24h greatest snow/hail doesn't have date, but has an amount.

Problem. Record Snowfall amounts are missing in climate daily report. (DR 17020)

Site LOT said that the problem is with both ORF and RFD.

Problem. RF OB5 IFP FGIX display issues. (DR 17011)

The frozen ground index (FGIX) needs to be added to the IFP SAC display and an FGIX column needs to be added to the detailed soil-moisture accounting listing.

Problem. RF OB5 XNAV missing value problem. (DR 17009)

When a forecast has missing (-999) values, the program interprets them literally.

Problem. RF OB5 FCST UHGCDATE mod problems. (DR 17008)

In some circumstances rises have occurred in the QINE 15 days after the mod has ended and the observed timeseries has been altered.

Problem. RF OB5 IFP Mods not being processed correctly. (DR 17007)

The WEADD mod is processed incorrectly if carryover is saved after applying the mod and then the carryover date is used at another time. The WEADD mod is applied on top of the previous adjustment. Rating shift mods for negative stages which are saved to OFS are not being applied when the fgroup which contains the mod is re-loaded.

Problem. Monthly Climate does not calculate precipitation correctly. (DR 16973)

This is happening for days where there is 0.01 inches of rain or less. Climate is not including precipitation days of .01 in it's calculations.

Problem. Unable to produce Climate products when records have been set. (DR 16969)

The site was unable to produce climate products when weather records have been set (highs, low, snowfalls) The program will not run the morning after the records have been set. Problem has been ongoing for years.

Problem. SCAN model data acquisition: bad error handling. (DR 16940)

When SCAN does not find its model.dat file, it is incorrectly flagging an error. The result is 100% probability of severe weather presented in the Storm Cell Table. This fix is known and is a one-liner.

Problem. FFMP Localization: Force clean localization. (DR 16935)

There are times when an FFMP localization produces changes which need to be reflected downstream - in the FFMPprocessor and display (via data, etc). If these changes are not reflected downstream, then FFMP will be broken. The known solution for this is to do a clean relocalization, which includes removing old data and re-starting the processor. We knew this early on, but expected clean relocalizations to be rare, thus we did not provide a script nor include such procedures in the localization itself. As it turns out, they are not as rare as we thought, thus DR is intended to address the need to make FFMP standard localization include the cleaning of data and re-starting of the processor. We will likely implement this with some sort of env var or switch, but, by default, it should be 'on'.

Problem. FFMP Basin Table update screen. (DR 16933)

According to a field site, when the FFMP Basin Table updates, it will reappear on whatever screen that has focus. This DR has not been verified, but wanted to create it so this issue does not get forgotten (again).

Problem. FFMP and HRAP bounds. (DR 16783)

FFMP uses an AWIPS utility for converting lat/lons to/from HRAP grid coordinates. This converter has arbitrary limits imposed, which exclude HFO's radars and kbro. This means FFMP will not be operable for those radars. After some extensive investigation of the symptoms, the fix is known and easy (2-liner, compiled code). However, because this only affects HFO and BRO, and both sites have already tested the fix (and currently still have it, i think), this DR is targeted for OB7. If it needs to be handled again in OB6, an ATAN will be used to handle this (until something better than an ATAN comes along).

Problem. AF OB6-NCF: Central NWWS dissemination product format. (DR 16767)

The central NWWS interface at the NCF builds NWWS headings from the WMO heading based on CCCC and NNNXXX. Apparently this algorithm is not correct and may have never been correct. NCF should create NWWS headings exactly as the sites do.

Problem. LSRuse of std::vector.resize(). (DR 16721)

When `std::vector.resize()` is used, it does not overwrite existing elements. It will only create new memory or delete unneeded memory, not clear out existing elements. This behavior was unexpected. Most uses of it are fine in the LSR GUI, but there are a few that need to be changed. Most instances of this yield no problems, but the potential is there for significant problems, so each use needs to be evaluated. This DR is intended for OB6.x, thus an OB7 duplicate is needed.

Problem. FFMP: Duration change at Basin Zoom causes layer change. (DR 16677)

1. If the user zooms in on a particular basin, then changes the duration, the Table goes back to the grouped layer, and it should not. This 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 user re-ranks the Table after user zooms in on one particular basin.
3. The Table behavior for the aggregation layers should be same as the County -> Basin way when user choose "HUC_1(2,3,4,5)" from Aggregation Menu. But sometimes clicking on one particular entity after the switch from one HUC layer to the other caused Seg Fault.
4. Incorrect data display when data source was changed from "DHR" to "SCAN QPF" and the "SCAN QPF" data were not available.

Problem. AWIPS does not handle DMD from Non-Associated Radars. (DR 16666)

The DMD product is on the OTR gui but AWIPS cannot display the product. Added to OB7.2 per RA-054.

Problem. ROC AWIPS cannot OTR to TDWR SPGs. (DR 16664)

The AWIPS OTR gui panes display radars alphabetically by 4-letter mnemonic and has a limit of using only 2 side panes which equates to about 87 radars). Since TDWR SPG systems all start with ~ST, all TDWR SPG radars would therefore come near the end of the 88D radar listings along with TJUA. Therefore, ROC and other centers that have a lot of radars configured for OTR access, will not be able to request products from TDWR SPG using the OTR gui.

Problem. New Prod Status and Red Banner Wrong with ORDA Remote Dial-in. (DR 16661)

The Radar Operations Center (ROC) identified an AWIPS problem during WSR-88D ORDA testing and is documented as ROC Issue "R..1-025", titled "ORDA B7-AWIPS New Prod Status Wrong with ORDA Remote Dial-in". When a technician dials into an Open RDA system, false Red Banner alarms (indicating a communications failure between the RDA and RPG) will be triggered and the NEXRAD Unit Status Display will flag New Product Status as Unavailable. | This is caused by a change to the RDA/RPG interface. New guidance from the ROC on how AWIPS should use the General Status Message(GSM) requires the following changes on AWIPS: Remove triggers based on the ~SRDA Alarms~T field in the GSM. For example, when a ~SWideband (RDA/RPG) Alarm~T is reported, do not generate a red banner alarm, and do not

~SNew Prod Status~T to ~SUnavailable~T on the ~SNEXRAD Unit Status~T display. | With Open RDA, this alarm category has a new meaning and consequently there is no reason for AWIPS to perform these actions. Added to OB7.2 per RA-050

Problem. SAFESEAS : Reverse Swell Period Rankings. (DR 16653)

Currently, SAFESEAS gives higher billing to smaller swell periods (they get colored red, and get sorted higher in the table than larger swell periods). KBOX and other WFOs would rather have the longer swell periods ranked higher. This is an OB7 DR.

Problem. MPC redbook graphics are displayed incorrectly. (DR 16379)

Many of the MPC redbook graphics are being displayed incorrectly. They are not being geo registered correctly (this is not a build specific problem).

From Joe Wakefield: "This seems to be the case. Compare, for example, MPC Marine Guidance >Tropical Surface Analysis to HPC Temps & Weather > MSL Pressure Analysis and ...Surface Fronts Analysis. Mapping doesn't look quite right." (This would not be an FSL issue.)

Problem. The Last Obs Ceiling and Visibility values are editable for Snow Only and Public Stations. (DR 5203)

Stations set up in the AVP as Public and Snow Only have "NA" in the rows for Ceiling and Visibility except the first field, Last Obs. The Last Obs field is editable, but the others in the row are not. For Snow Only stations, these fields are "MSNG". When trying to edit and save these values for Snow Only stations, an error message pops up: "VerScreen::write(): saved failed, status = 2011". Clicking OK and changing the values back to "MSNG" allows the user to continue. For Public stations, the application ingests values for the Last Obs fields. They can be edited as desired. The values are formatted into the cccVERxxx messages sent to NCEP.

Workaround. Edit both the Last Obs fields to "MSNG", and no extra data will appear in the formatted messages.

Problem. Resultant wind is not output in the NWWS product when selected. (DR 7007)

When all wind elements for the NWR monthly report are selected, the resultant wind is not output in the NWWS product, although it is output to the NWR product.

Workaround. Take the resultant wind value from the NWR product and edit it into the NWWS product if desired.

Problem. The NWWS version of Climate attempts to transmit deleted products. (DR 7011)

If the user creates an NWWS product, but then decides to delete the product using the Climate editor, the product is deleted as expected. However, the program continues to request transferNWWS.pl transmit the product out over the NWWS. Since the product no longer exists, the transferNWWS.pl script generates an error message.

Workaround. None. However, since the product no longer exists, no product is transmitted and the transferNWS.pl script just generates an error message. This error occurs only once per deleted product.

Problem. Sky cover is not enhanced with SCP observations. (DR 7442)

The sky cover value in the climate products is not enhanced with satellite information. Therefore, for most ASOS stations, this value represents only the lowest 12,000 feet.

Workaround. Edit the product manually as necessary before transmission.

Problem. The crons that determine when and how the Climate program runs should be separate from ingest.crontab.ds1. (DR 7756)

Most sites need to change the times of execution of their climate programs from the baseline ingest.crontab.ds1. The baseline ingest.crontab.ds1 is used for standard execution times of programs, but the Climate program is user-configurable.

Workaround. Edit the Climate entries directly in ingest.crontab.ds1 as necessary.

Problem. Missing data in GUIs should be displayed as M. (DR 7923)

Missing data are stored in the database under various values, such as 9999, 9999.0, -9999, and 99. The stored data should not be changed, but the display of these data in the GUI should be M.

Problem. Warning messages from database changes should be improved. (DR 7925)

The Quality Control Climate Database warning messages need to be improved to provide the users with more informative and useful messages.

Problem. Snowfall estimate is output as 0 instead of missing. (DR 8195)

The snowfall estimate may appear as 0 despite the fact that precip is reported and the maximum temperature is less than 32 F.

Workaround. Edit the product manually as necessary before transmission.

Problem. Eliminate extra record for annual normals. (DR 8815)

When the Initialize Climate Database GUI is launched with the "Annual" option, the GUI contains "First" and "Last" buttons. These buttons are useful for "Daily", "Monthly", and "Seasonal" records. However, for "Annual", since there is only one annual record per station, both buttons need not be active.

Problem. Some monthly average sunshine data is missing from the F6 product. (DR 10682)

The F6 product summarizes the total number of minutes of sunshine, and should give the average number of minutes of sunshine and the average percentage of possible sunshine, but the last two fields are missing from the final product.

Workaround. Edit the final product manually as necessary.

Problem. Selecting Edit Climate Product on the Linux text workstation causes the NWR Browser and NWWS Review windows to appear on the Linux graphics monitor. (DR 12279)

When Climate is run manually from a Linux graphics monitor, selecting Edit Climate Product (when new appears) on the text workstation causes the NWR Browser and NWWS Review windows to appear on the graphics monitor where the climate program was originally executed. These windows should appear on the text workstation as they did in previous releases.

Workaround. Simply use the NWR Browser and NWWS Review windows on the graphics monitor when they appear there.

Problem. The Initialize Climate GUI does not accept a monthly record snow depth of T. (DR 12429)

Workaround. Edit the product manually as necessary before transmission.

Problem. Climate should not allow the rerun of the monthly climate product if new records have been set. (DR 12551)

The monthly climate should follow the same paradigm as the daily climate by not allowing the report to be rerun if a new record has been set.

Workaround. Use caution when rerunning the monthly climate product for a month in which a record was set.

Problem. Missing Sea-Level Pressure causes failure of the DSM decoding. (DR 15977)

If there is a missing sea level pressure value in the ASOS DSM, the climate application does not decode the DSM.

Problem. The Graphic Color Chooser/Centroid does not work correctly after the color bars are moved in HSB mode. (DR 10894)

On the Linux workstation, load a graphic into the large pane and bring up the Color Chooser tool. Select HSB, move any of the Color Bars (Hue, Saturation, or Brightness), and then move the Centroid around. At this point, the user cannot manually move the Centroid into the green area. If the user switches back to RGB mode, the Centroid still cannot be used correctly.

Workaround. The user can still select any color using the Color Bars.

Problem. Data Scale does not work for combined or multiload products. (DR 11438)

When using Data Scale from the D2D Options menu, the product selected is displayed on its native scale. For example, data from a non-local radar will display on a map encompassing its range. However, when using Data Scale, if the user selects a combined or multiload product, such as Z/V, 4-panel satellite or radar, or a model family, the scale adaptation does not work.

Problem. Display QuikScat winds in colors for each wind speed category. (DR 15069)

The current QuikScat display is all one color. The files actually contain information related to the different wind speeds in categories and an additional flag indicating whether there is rain contamination. This type of display can be achieved by using the multi-load code that is used for the lightning observations at close time ranges. A similar load scheme could be used to load the wind speeds at 5kt intervals (as well as the rain flag).

Problem. Set Background Color Cancel button behavior is inconsistent. (DR 15565)

If one selects Set Background Color... from the button 3 popup, the change applies only to the window in which the selection was made. In this case, if one applies a color, then Clicks Cancel, the display reverts to the previous setting. On the other hand, if Set Background Color... is selected from the options menu, then changes apply to all panes. In this case, a color application followed by cancel leaves the color that was applied.

Problem. GFE allows ifps user to scp to LS from the DX which is not currently supported. (DR 15603)

GFE provides a means to access site scripts. When scripts are run from the IFP server on the DX user ifps is used who can not scp from the DX to the LS. The script will work if run on any other host as any of the site's individual users.

Workaround. Open a route for ifps from DX1/2 to the LS or run local scripts on PX2.

Problem. D2D hangs for several minutes when run with GFE on the same monitor. (DR 15881)

If you lunch D2D and GFE on the same monitor, the D2D will hang for several minutes. If you do a top command on the workstation, the CPU usage for the fxaWish process goes to near 100% for several minutes.

Workaround. None, but after several minutes both the D2D and the GFE are usable again.

Problem. LAPS infrequently does not run for an hour due to an lga crash. (DR 6385)

The LAPS lga executable may crash when it cannot access RUC data. However, most of the time when lga cannot use RUC data, there is no crash and lga just tries to use Eta data.

Workaround. None. This problem occurs rarely and LAPS works the next hour.

Problem. LAPS relocation does not indicate if it succeeded or failed. (DR 6407)

There is no indication when the LAPS relocation is done. The user receives no notification if it has succeeded or failed.

Workaround. Look at the logs in /data/fxa_local/laps/log to see if it was successful.

Problem. The confirmation message when relocalizing using the LAPS Tool GUI is not clear. (DR 6524)

The LAPS Tool GUI has a Confirmation window that appears when the user selects Localize LAPS. The window looks like it is intended to tell the user not to run the localization when the LAPS cron is running. The window says: "Procedure takes ten minutes. Consider that it is hh:mm and LAPS usually runs at :20 after the hour." The box does not indicate when LAPS ends or tell the user to check on AS2 to see if it is done. It could show specific times that the localization should not be run.

Workaround. LAPS localization should not be run during the LAPS cron run, which is usually between 20 and 30 minutes after the hour.

Problem. The LAPS tool for displaying data used for current analysis does not work for a short time after 00Z. (DR 7774)

The LAPS tool for displaying data used for current analysis indicates that the files that it needs to view are not found for a short period of time after 00Z. If the tool GUI is opened shortly after 00Z, the data that were used in the previous run cannot be viewed until LAPS runs again around 0020Z.

Workaround. View the logs manually through a Telnet window, or wait until LAPS is finished to view the 0020Z LAPS run logs.

Problem. Some LAPS logs are written to the wrong directory. (DR 12965)

The laps_sfc.ver.<hhmm> and sfcqc.log.<hhmm> logs are written to the wrong directory. They are written to /data/fxa/laps/log/qc and /data/fxa/laps/log, respectively, but should be written to /data/logs/fxa/display/<date>/laps.

Workaround. View the logs in their current locations as indicated above.

Problem. LAPS localization does not start if different users execute it. (DR 15003)

When a user different from the one that previously run the LAPS Tool domain relocalization clicks the "Localize Laps" button, a tcl error appears. It indicates that touch can not create a lock file under /data/fxa_local/laps_domain directory. The directory is owned by the user who previously run localization and has 755 permissions. Therefore, no other user can change items under this directory. The directory does not appear to go away after localization completes.

Workaround. Remove the directory and try again.

Problem. Straight map lines sometimes disappear when zoomed. (DR 4415)

If the user zooms in sufficiently (usually max on WFO scale), map lines may disappear. This seems to happen when neither end of a line segment is on the display.

Workaround. The map line can be made to reappear by roaming the display or zooming back out.

Problem. Two Skew-T sampling problems. (DR 8196)

1. If a user has lat/lon sampling on, then displays a Skew-T chart, the sample includes lat/lon information appropriate for the scale that was previously displayed. It cannot be turned off, since there is no lat/lon sampling button in the pop-up (appropriately).
2. The Theta/Theta-e readout in Skew-T samples includes a degree sign in front of the K. There should not be a degree sign there.

Workaround. Turn lat/lon sampling off before displaying a Skew-T.

Problem. Swapping panes eliminates overlays more than 7 frames from the end of the loop. (DR 12761)

The following is an example of this Load multiple (>7) frames of satellite data into the main pane. Step back greater than 7 frames, choose Inventory load mode, and load METAR observations to create an overlay. Swap into small pane (if looping is on, notice that the default loop is the most recent 7 frames no matter how many were originally loaded). Swap the data back into main pane to restore the original conditions. Then, step back to the frame where the METAR observations were overlaid on the satellite and the overlay is no longer present. This does not happen when the overlay is less than 7 frames back, possibly because that information is still stored by the loop in the small pane. This can happen when other data types are overlaid as well.

Workaround. Avoid swapping overlays such as this into the small pane if possible. This problem does not occur when overlaying products over the entire loop.

Problem. Button 2 click in loop dialog yields a script error. (DR 15455)

If one is using the Loop parameters dialog and clicks with button 2 in one of the slider boxes, a script error pops up on the screen: Can't read "Priv (.loopPref.firstScale.relief)":no such element in display. ('first' is replaced by 'last', 'back', or 'fwd', depending on the slider.) Further, dragging or clicking with button 1 works fine, and that's the way most users probably interact with this dialog.

Workaround. The requested action takes affect, so this is just an annoyance.

Problem. Open saved skew-T does not work in Interactive Skew-T application. (DR 15618)

In the interactive Skew-T application, one can save and re-open a file containing the sounding points. While Save/Save as ... woks, Open ... does not display the contents of the file. This feature worked on Hp but apparently does not on Linux.

Problem. Large panes do not load correctly the first time D2D is launched after login. (DR 7409)

When logging into a workstation and then launching D2D, the map background in the large pane does not load correctly. The large pane loads with a little 2- x 3-inch CONUS map background in the top left corner, and the rest of the pane is black. The large pane stays this way until the mouse is run over the miniature map background or the menu bar. At that point, the large pane fills up

with several of these miniature map backgrounds, then quickly switches to the correct map configuration.

Workaround. None, but no operational impact. The problem disappears as soon as the mouse is run over the pane. In addition, the problem only happens when D2D is launched the first time after logging into a workstation.

Problem. Some NCEP Model Graphics products have errors. (DR 707)

Bad MRF MeanRH and AVN 850-500 Thickness data cause the UKMO, ECMWF, and S-blend 6-10 500 height products to be centered over Africa when they should appear over the pole.

Problem. Some NCEP model products have different times on product dates, product legends, and green times. (DR 2479)

Some NCEP model products have product times (in the upper left corner), product legends, and green times that all differ from one another. The products are: From the Model Graphics cascading menu in the Upper Air menu, MRF 0-5 Wave 500 hgt, 120h UKMO 500 hgt, 120h ECMWF 500 hgt, and 6-10 day 500mb Height. From the National Centers models cascading menu in the NCEP/Hydro menu, NGM Moist Conv.

Problem. Several Redbook graphics products have incorrect date-time groups on the WMO headers. (DR 4142)

Several Redbook graphics (RBG) date-time groups (DTG) on their product's WMO Header are not correct. The DTG time should be the cycle time (also called basis time) for the forecast or analysis. For example, a 12-hr forecast of a product with a valid time of 09/00Z will have a cycle of 081200 (08/12Z). The AWIPS CP assumes the product WMO header date time group (TTAAii CCCC DDHHMM) will always be the cycle time and uses this information to timestamp the product, which is key to time matching the product with other data types. The WMO DTG is created at the product generation source point, which is typically at NCEP/NCO. An inventory of RBGs with the DTG problem has been accomplished and forwarded to NCEP. The methodology for checking to see if the WMO header of the RBG is the cycle time is to compare the AFOS label valid time with the AWIPS valid time label. Another way is to cat the file and compare the AWIPS DTG on the RBG file name with what appears in the file dump from the cat.

Problem. Text is curved on some Redbook graphics products. (DR 9614)

On some Redbook graphics products, some of the text displayed for the products is curved on the D2D display. This makes the text more difficult to read. Some products that have this problem include the 3-7, 6-10, and 8-14 Day Heat Index Fcst, West Atlantic Fronts/Press Fcst, and North Atlantic Surface Analysis.

Problem. The probabilistic heat index forecast products are purged too quickly. (DR 12978)

These products (WMO ID: PTNK98KWNC) total nine charts, which are saved with time stamps of one minute after the other for each chart. However, purge is set to keep only two versions of these products, and thus the other seven are purged soon after being stored.

Workaround. Manually modify the purge parameters to retain more versions of this product than two.

Problem. MPC redbook graphics are displayed incorrectly. (DR 16379)

Many of the MPC redbook graphics are being displayed incorrectly. There are not being geo registered correctly.

The top bundle in the history list cannot be altered. (DR 6916)

Workaround. Clear the screen and the top bundle becomes the second bundle, and it can then be altered.

Problem. The “*mb” option in Product Maker does not work properly. (DR 2436)

When loading a product in the Product Maker using “*mb”, only two frames display. Neither frame has a pressure label. The second has a time stamp of -251868HR Thu 00Z 01-Jan-70.

Problem. The “<” and “>” operators have problems with contoured fields. (DR 3453)

The Product Maker has a problem displaying the following field, and other fields with the < operator: (Height[ETA,,,500mb,*]) < (5460). The field is displayed such that the contours closest to 5460 are broken up. An image displayed for this field appears blocky and discontinuous around 5460.

Problem. Product Maker is not able to calculate values of parameters at specific latitudes and longitudes. (DR 4669)

For example, a user could enter an equation of “Temp,Eta, 90,40,500,12” to calculate the temperature at 500mb at 90W, 40N for the 12hr Eta forecast. When loaded, the word “Loaded” appears in the Status/Value line, but no value is returned and nothing appears on the D2D.

Workaround. Some of these values may be obtained by loading the product as an image in the Volume Browser and sampling. Then the value sampled may be manually put into the Product Maker for additional calculations.

Problem. Product Maker has problems with satellite imagery. (DR 8162)

The Product Maker displays satellite information (not the actual image) incorrectly. For example, the IR_window image is displayed with its correct color curve, but the color curve legend is in counts from 0-255 instead of in degrees C. When the image is sampled, those same "counts" are returned, as if it were a visible image. Also, the visible imagery legend (and sample) goes from -50 to +300, instead of 0-255.

Problem. AVN and MRF still appear as sources in the Product Maker. (DR 13530)

The AVN and MRF still appear as sources in the Product Maker. These products have been renamed to GFS. However, this does not prevent the loading of the products via the Product Maker.

Problem. Some D2D radar windows report abnormal exit when closed. (DR 5972)

When some D2D radar windows, such as RMR, the OTR, Alert Request, or RPS windows, are opened, worked with, and then closed, sometimes a message appears in the D2D status bar or as a Red Banner Message stating that the window exited abnormally. There appear to be no adverse affects from this message though.

Problem. The All Tilts product sometimes does not update properly. (DR 8287)

The All Tilts radar product sometimes updates with the wrong data. For example, if the 1.5 SRM is displayed, sometimes the .5 SRM comes in as an update.

Workaround. Reload the product to display the current version. The product also will auto-update with the correct version with the next volume scan.

Problem. RCS and VCS products update all panes when loaded. (DR 10595)

Both products are only available via OTR. When they are loaded, all RCS or VCS panes are updated with the latest product. So, for example, if three windows are loaded with an RCS product all at different times, and the user does a OTR and gets the latest RCS, when it is available all three panes are updated.

Problem. Radar menus update inconsistently when products are not available. (DR 11014)

If an elevation is requested and is not available, the next lowest elevation is provided, which is by design. However, sometimes both the requested elevation and the elevation provided are updated with a current time on the menu. The product is stored twice under both elevations, but is the same product. This happens most consistently with the DZ product (8-bit Reflectivity).

Workaround. None. Be aware that the radar menus may sometimes be inconsistent in cases such as these.

Problem. The Radar Mosaic product does not display properly. (DR 11494)

When the .5 refl radar mosaic product is zoomed, the display around the site's dedicated radar shows a 'doughnut' of missing data in the 1-2 nm range and data in the 0-1 nm range.

Workaround. Use the non-mosaic version of this product from the site's dedicated radar. The 'doughnut' problem does not occur on this product.

Problem. Range rings sometimes display incorrect values. (DR 12261)

Sometimes radar range rings display incorrect values. This has been observed most often when range rings are displayed over a radar product for the first time in a D2D session. The range rings display a large magnitude negative number for km above ground level.

Workaround. Clear the display pane and reload the radar product and range rings. This time the range rings will display correctly.

Problem. The All Tilts product legend is too long. (DR 13381)

When the user loads several of the All Tilts products on D2D for any radar, the product legend in the lower left of the screen becomes too long and the beginning of the product legend name is cut off.

Workaround. Resize the current window to see the full product name.

Problem. MRU cell ID D0 appears as d0in cell table. (DR 14577)

This occurs constantly for D and may for other letters of the alphabet, and is confusing to the user.

Problem. The DMD product uses both 000 and 360 degrees as valid direction. (DR 14578)

Two different cells moving in the same direction used this.

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

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

Problem. New Prod Status and red Banner Wrong with ORDA Remote Dial-in. (DR 16661)

When a technician dials into an Open RDA system, false Red Banner alarms (indicating a communications failure between the RDA and RPG) will be triggered and the NEXRAD Unit Status Display will flag New Product Status as Unavailable. This is caused by a change to the RDA/RPG interface.

Workaround. Remove triggers based on the ~SRDA Alarms~T field in the GSM.

Problem. Wrong WMO Header for NEXRAD Archive Status Product will cause it to go on NOAAPORT. (DR 16662)

ROC submitted RC AC430 to implement the Archive Status Product (152) and the central collection and NCDC archive of it. The WMO header ID which was assigned last winter for this product will cause it to be broadcast on NOAAPORT. Since NOAAPORT is not required and since NCDC prefers to receive it via multicast, the WMO header ID must be changed.

Workaround. Change WMO header ID.

Problem. ROC AWIPS cannot OTR to TDWR SPGs. (DR 16664)

The AWIPS OTR GUI panes display radars alphabetically by 4-letter mnemonic and has a limit of using only 2 side panes which equates to about 87 radars. Since TDWR SPG systems all start with ~ST, all TDWR SPG radars would therefore come near the end of the 88D radar listings

along with TJUA. Therefore, ROC and other centers that have a lot radars configured for OTR access, will not be able to request products from TDWR SPG using the OTR GUI.

Problem. Problem toggling back and forth when accessing View->current list for a tdwr radar. (DR 16711)

If you open up an RPS List Editor GUI and select View->Current list.... and select a wsr-88d radar, the current list for that radar will be displayed in the window. Again, select View->Current list... and select a wsr-88d radar, the current list for that radar will be displayed. With the same GUI still open, select View->Current list... and now select a tdwr radar - the current list for that radar will be displayed. At this point, you will not be able to access another radar's current list via the GUI. You have to exit and relaunch it. You can toggle back and forth with the wsr-88d current list displays, but once you access a tdwr, you will not be able to access any other radar.

Workaround. Exit and relaunch GUI.

Problem. Persistent unsynchronized GOES imagery in four-panel satellite view. (DR 13000)

The four-panel satellite images are typically synchronized in time. However, sometimes (often several times per week) it is not possible to produce a time-matched set due to the nightly suspension of visible data, eclipses, switches between routine mode and RSO and back, and sporadic missing imagery. These events cause the imagery from one or more channels to be missing, while imagery from other channels is available. In these cases, D2D often displays "Not available" for the missing sector, or sometimes picks another near-in-time (though not exactly time matched) image, with the result being one or two out-of-sync images. Temporary out-of-sync images in and of themselves are not a serious problem, but often even after such temporary periods of missing imagery are over (e.g., when complete data coverage has resumed), D2D often continues to display out-of-sync data products until some other event triggers a resynchronization. For example, some event might trigger an incomplete set of satellite imagery at 06Z. By 07Z, complete sets of imagery are restored, but, later in the day, as a user loops through the image sequence between, say, 06Z and 09Z, unsynchronized imagery displays for every loop sequence, even for periods when a complete set of imagery is available. The correct behavior should be that out-of-sync imagery is either not displayed at all, or only displayed for the time periods when an incomplete set is available. Once complete time-synchronized data are available, they should be displayed.

Problem. Green times are sometimes incorrect for WV and WV/IR 4-Sat composites. (DR 15570)

The green times for the WV and WV/IR 4-Sat composite products update intermittently. The other 4-Sat composite products (VIS, IR) update consistently. The WV and WV/IR products are available for display even though the green times do not always update.

Problem. There is a QPF scale display problem. (DR 6173)

Currently, the RFC QPF products are only available at the Regional Scale or below. The problem is that most of the sites in the list are outside that scale but are still selectable. As a result, the user may select a product and it will load, but the user will not be able to see the data. The menu

should grey out stations not accessible at a particular scale. Also, the RFC QPF should be displayable at the CONUS scale or below.

Problem. The FFG Mosaic product produces errors in the IGC_Process log. (DR 9167)

When loading FFG Mosaics from the Hydro section of the NCEP/Hydro menu, the IGC_Process log reports errors. There is one RFC with old data, and there are errors reported for each RFC that does not have data as old as the old data. It does not appear that this prevents any valid data from loading. Here is a sample of the errors seen:

```
IGC_Process 9582 999808650.703837 20:37:30.703 BUG: Error opening file:  
/data/fxa/img/SBN/netCDF/HRAP/FFG/CBRFC/3hr/20010725_1200.multi
```

```
IGC_Process 9582 999808650.718507 20:37:30.718 BUG: Error opening file:  
/data/fxa/img/SBN/netCDF/HRAP/FFG/LMRFC/3hr/20010725_1200.multi
```

```
IGC_Process 9582 999808650.720652 20:37:30.720 BUG: Error opening file:  
/data/fxa/img/SBN/netCDF/HRAP/FFG/MARFC/3hr/20010725_1200.multi
```

```
IGC_Process 9582 999808650.723665 20:37:30.723 BUG: Error opening file:  
/data/fxa/img/SBN/netCDF/HRAP/FFG/MBRFC/3hr/20010725_1200.multi
```

Problem. The lightning plot sometimes displays incorrectly during periods of intermittent data. (DR 12063)

The following scenario describes the problem. Lightning data were received during the 1200 UTC time frame, but not during the 1100 UTC hour or the 1300 UTC hour. The current time is 1350 UTC. Requesting the one-hour lightning plot displays 1200 UTC lightning in the legend, but displays nothing in the main pane (the empty 1100 UTC time). Because there is no lightning so far for the 1300 UTC hour, there is no netCDF file for it. The display generation seems to interpret a one-hour request as "display the hour previous to the most recent existing netCDF file", which is from 1200 UTC in this case. So it displays the empty 1100 UTC data file but places 1200 UTC in the legend, but not with the data that exists from the 1200 UTC hour.

Workaround. Load shorter time-projection plots, such as 15-minute lightning. However, be aware that the problem could exist for those plots as well if the data are sufficiently intermittent.

Problem. The heat indices displayed on the D2D product are sometimes off by a degree at some locations on the display. (DR 12260)

On any given display of the product, a few locations may show this error. The error is not specific to any particular location or region.

Workaround. None, but the majority of locations on any display will not suffer from this problem. When in doubt, consult the Hourly Weather Round-up product for the correct value.

Problem. MOS sampled on D2D has extra characters. (DR 12818)

When a MOS plot is loaded on D2D from the Forecast data menu in the NCEP/Hydro menu, it can be sampled. The text of the MOS plot appears. At the end of the lines of the products, there are boxes. Most lines have two boxes. Some lines have one box.

Workaround. No data are lost, so there is minimal operational impact. Simply ignore the extra box characters.

Problem. PDC Stage Flow bug. (DR 15510)

In the PDC table, The Stage Flow column does not appear to have the correct data - as it has a different number of entries than the other columns, and thus may not scroll when the others scroll.

Problem. FFMP: FFFG permanent values not sticking. (DR 16528)

When FFG values are forced using the Forced FFG GUI, and a flag that is suppose to mean that the forced values have no expiration and are to be used indefinitely is provided, at some point, the values get lost and are not used.

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

When the Polar Precip Rate display is loaded with ORPG Build 8 DHR, the Hail Cap listing is showing the wrong value. The depictable needs to adapt to the ORPG Build 8 format.

Problem. Duration change at Basin Zoom causes layer change. (DR 16677)

If the user zooms in on a particular basin, then changes the duration, the Table goes back to the grouped layer, and it should not. This does not occur when the user zooms in on a given group - only when the user zooms in on a particular basin.

Problem. SAFESEAS is a choice on ingest restart at non-safeseas sites. (DR 14390)

SAFESEAS can be chosen on Ingest Restart at non-SAFESEAS sites. If the user tries to start it, it times out after about ten minutes with the following message: "Timed out waiting status files from subprocesses. Process stops and restarts for the nodes and classes indicated by the following missing status files may not have been successful:

```
/data/fxa/data/fxa_monitor/restartStatusPending_as2_SAFESEAS.txt .
```

Problem. Duplicate TAFs are being stored. (DR 7587)

Some TAF products are being stored in the database more than once because they have different headers. Some of these are individual TAFs that also appear in a collective. Some are contained in several collectives that have different WMO headers. The ColIDBDecoder processes all of these, and because the headers are different, the decoder stores all of them. The duplicate filter does not work because the products are, in fact, different.

Problem. Multiple versions of a text product are stored if different products under the same WMO ID are repeated. (DR 10643)

At SEW, multiple versions of SEACGRNMW are being stored. There are about five different products that are coming in under the SXUS40 header. Sometimes the set of five distinct products repeats. To the site, this appears to be duplicate product storage, but the duplicate text filter is not catching it because it only looks at the most recent version stored under the AFOS PIL.

Problem. Help function is incorrect in Text Browser for international origin. (DR 3886)

There are a couple of discrepancies with International sites. In the node section, the help function gives Wisconsin Rapids, WI for ISW. This is correct for the US KISW, but incorrect for the International site. The other discrepancy is choosing ICO as the node and CO1 under MTR. Using the help function on this, the user gets Rivers in Colorado. However, ICO is the International site Columbia.

Workaround. None. The data can be retrieved by typing in the AFOS PILs in the AFOS Cmd command line for these products.

Problem. The Change All button on the text workstation spell checker does not work if there are numbers. (DR 6388)

The Change All function on the text workstation spell checker does not work if there are numbers attached to (no white-space between) the word that is being corrected.

Workaround. Use the Change button instead.

Problem. Request/Reply returns the same product more than once. (DR 6408)

If a site requests and receives a product from another site and then requests the same product again from the same site, the product is sent to the requesting site again and is stored in the text database. The result is duplicate products in the text database.

Problem. D2D-launched text window spell checker does not work. (DR 9793)

The spell check feature in a text window launched from the D2D does not work. When the spell checker is accessed, an error message appears saying, "Error: error writing "file43":broken pipe."

Problem. The Text Workstation is slower on Linux than on HP. (DR 13589)

The X-Terms are slower now that they are connected to Linux versus when they were connected to HP. This is probably due to the fact that with the use of KDE, the X-Terms are using more memory than they used to.

Workaround. None. This will probably be resolved with the X-Term replacement.

Problem. "Forecast Time" vs. "Inventory Time". (DR 1611)

When using Inventory load mode, in the Select Forecast and Inventory dialog box, the forecast times and inventory times match only for the first inventory time listed.

Workaround. The forecast time the user loads can be determined manually from the Inventory time and the hour forecast (HR) section of the Forecast time section.

Problem. The Units Conversion Calculator returns invalid results when using large values. (DR 13532)

Inputting large values into the Units Conversion Calculator often produces invalid results. For example, 12345678 km converts to -53922388m, 1234567 days converts to -707593600 seconds, and 1234567 Nmi converts to -2008549212 m.

Workaround. Use caution when inputting large values into the Units Conversion Calculator.

Problem. Distance speed tool direction off by 180 degrees. (DR 14575)

The distance speed tool shows where objects are going to vs. where they are coming from. A number of cells moving from the west to the east should appear as direction 270 degrees, distance speed tool shows heading toward 90 degrees.

Problem. Label magnification problem with hodograph. (DR 5170)

When working with the Interactive Skew-T and Hodograph, if the user zooms in over the hodograph and toggles Helicity/Storm Inflow on from the Skew-T controls window, the values/labels do not reduce when the user zooms back out.

Workaround. Once zoomed back out, toggle on and off the Helicity/Storm Inflow to force it to reduce magnification.

Problem. The MRF Mean RH product in the Upper Air menu has spurious lines displayed and the model times in the legend are incorrect. (DR 7143)

Problem. Cannot add a new vertex to the Hodograph. (DR 8324)

A new vertex cannot be added to the Hodograph in Interactive Skew-T mode. When mouse button three is clicked over the hodograph line, a menu pops up with "Add Vertex". If Add Vertex is selected, a new vertex appears, but as soon as the mouse button is released, it disappears.

Workaround. Add the vertex by using the entry boxes in the Skew-T window.

Problem. The profiler perspective product displays slightly differently in the small pane. (DR 10329)

The profiler perspective product plots winds on a staff with 10 height ticks (including the surface) in the large pane. When swapped into a small pane, the staff has 11 ticks, until the height of the pane is changed, at which point it then returns to 10.

Workaround. Ensure that the display shows 10 height ticks by viewing this product only in the large pane, or in a small pane that has been resized.

Problem. Significant Level Winds are occasionally missing on AWIPS RAOB Plots (SkewT). (DR 15073)

RAOB plots retrieved via the D2D sequence “Upper Air”—>(RAOB) e. g. “US Eastern” —> then pick a site, are occasionally missing the significant level winds. The PPBB portions of the RAOB significant level products sent on the AWIPS WAN to the NWSTG. are okay. It seems the issue is with the BUFR encoding of these products that are sent back to AWIPS in the IUST*KWBC collectives. These BUFR products are used for the AWIPS D2D display.

Problem. Problem with Manual edit of Eta40 1000mb Temperature on Interactive SkewT (DR 15101)

The problem with interactive SkewT occurs when editing the Eta40 , interpolative, sounding 1000mb temperature by manually moving the point. the display goes haywire with the temperature essentially going off scale. This happens because there is no dewpoint temperature at 1000mb (Td is “virtual”, computed using RH, temperature and pressure – there is no RH for mesoEta212 [eta40] model). The missing 1000mb Td represents a missing SkewT limit.

Workaround. Things work ok if we manually place a dewpoint temperature on the sounding at 1000mb.

Problem. Differences noted between N-AWIPS and AWIPS QPF fields. (DR 658)

A difference was noted in the AVN model QPF fields when comparing WFO-A displays with the N-AWIPS display. The discrepancy involved the 60- to 72-hour projections. Essentially, when displaying the 12Z run of the AVN model, the WFO-A system indicated that close to 2 inches of rain would be received in the DCA area while N-AWIPS indicated all of the rain would pass to the south.

Workaround. None. COMET is performing an analysis of AWIPS vs. N-AWIPS displays. This is a long-term effort.

Problem. Eta Model Precipitation error. (DR 1092)

The Eta Precipitation field differs from the current PCGRIDDS product in that AWIPS shows a .01 contour where PCGRIDDS shows 0.

Workaround. None. COMET is performing an analysis of AWIPS versus other system displays. This is a long-term effort.

Problem. The small map in the Volume Browser Time Series products does not change to accommodate new point locations. (DR 2398)

If a product is loaded, for example, for the west area of the CONUS, and then a second product is loaded for the east area of CONUS, the small reference map does not change to include the location of the second product.

Problem. Some NHEM scale AVN data are missing past 48 hours. (DR 7118)

The logs show data that come in at the 6-hour increments (including 54, 66, 80, 92, etc), but on D2D they are only viewable every 12 hours after 54 hours.

Workaround. None. At CONUS sites, the CONUS AVN data are available. However, the OCONUS sites do not get that CONUS data.

Problem. GWW color editor changes get overwritten by auto-update. (DR 10032)

Display wave height fields as an image for the GWW model. Using the color editor, block fill a portion of the data (e.g., make 4-6 meters black). After the display auto-updates to the next model run, either the color fill values change, or the color fill changes are reset to default.

Workaround. Perform the color fill again on the new model image.

Problem. Two units problems with the Diff function in the Volume Browser. (DR 10785)

1. The result of the Diff function on surface temperature and dewpoint (either Plan View or Time Series) should be the same as the dewpoint depression. However, the units do not come out right.
2. If the user does a Diff of variable vs. height of vorticity and divergence, the scale is not labeled in a useful way. If the user overlays this Diff on those "undiffed" fields, the result is just a straight line.

Workaround. None; be wary of the results of the Diff function in these situations.

Problem. A Tcl error is displayed when selecting Show Detailed Inventory. (DR 11436)

When using time series in the Volume Browser, when the user right clicks to "Show Detailed Inventory", a Tcl error occurs. The following error is displayed:

Error: called :show_inventory" with too many arguments.

Problem. The AVN boundary layer and surface winds are the same on CONUS and lower scales. (DR 12371)

When selecting the AVN surface wind fields, only the boundary layer winds display on the CONUS scale and below.

Workaround. Use a different model to view these wind fields.

Problem. A Time Series with different scales displays incorrectly. (DR 13696)

When a Time Series with different scales (such as temperature and height) is first loaded, the top Time Series uses the top of half of the screen, and the bottom Time Series uses all of the screen. The top Time Series should be in the top half of the screen, and the bottom Time Series should be in the bottom half of the screen.

Workaround. Zoom in and then back out over one of the Time Series, and they will correct themselves. The top Time Series will then be in the top half of the screen, and the bottom Time Series will be in the bottom half of the screen.

Problem. Procedure values on Baseline Cross Section IMAGE not constant. (DR 14957)

When loading cross sections as a procedure, the values that were set when creating the procedure change when loading the procedure or switching panes.

Problem. Cross section overlay problems when using Choose by ID. (DR 15867)

If you specify a line using the Choose by ID tool, then try to overlay cross sections, the cross section you want to overlay replaces the first cross section. If you select the line using the baseline tool, then you can overlay cross sections.

Workaround. Select the line using the baseline tool, then you can overlay cross sections.

Problem. VB 'Wind Direction' field does not account for map rotation for some grids. (DR 15957)

Although wind barbs/arrows/streamlines are correctly rotated to account for map projections, the Wind Direction field is not, in some cases. This is true for at least the GFS360, GFS90, and NAM(Eta)80 grids, but not (i.e., the field is correct) for at least ECMWF and UKMET grids. An easy way to see the problem is to go to the Northern Hemisphere scale, select GFS360 and ECMWF grids; Fields>Basic>Height, Wind and Wind Direction; and Planes>Pres>500mb. Click button 2 on both wind Direction lines, enable Image Combo from the Tool Bar, and Load. Note that the wind barbs and height lines are in agreement, but sampling the combined image will reveal the problem.

Problem. Incorrect wind direction interpolation. (DR 15958)

If one displays wind direction as an image and samples, it's apparent that the interpolation across north (360/0 deg) is incorrect in most cases. Suppose adjacent grid points have winds from 10 and 350 degrees, respectively. Interpolated direction should go from 10 to 0, then jump to 360 and slope to 350. Instead, what one sees is the direction sloping the other way, from 10 through 180 to 350.

WarnGen logs to the previous day if a new session is loaded after the previous session overlaps breaklog. **(DR 7486)**

If a WarnGen session is loaded continuously in a pane before, during, and after the breaklog, any new WarnGen sessions launched in that same pane are logged to the previous day's logs.

Problem. The pathcast option is in the wrong place in the WarnGen GUI for tornado warning. (DR 12529)

When attempting to create a tornado warning in WarnGen, the "BASIS FOR WARNING" section states to choose 1 from the list of options. The "pathcast" phrase appears in this section along with "Doppler Radar indicated..." and all the other possibilities. The "pathcast" phrase should be moved to another section since it is valid to select this with another "BASIS FOR WARNING" option.

Workaround. Edit the product manually as necessary before transmission.

Problem. A zombie textdb process is created when the WarnGen QC function displays a message on the screen. (DR 12676)

When the WarnGen QC finds an error in a created text product, a message window is displayed to the user on the text workstation indicating the nature of the problem. The textdb process used to create this message window then goes zombie. However, there appear to be no adverse affects to the system from this problem other than that.

Workaround. None should be necessary, as full functionality is retained despite this problem. If necessary, reboot the workstation to clear the zombie process(es).

Problem. WarnGen QC does not flag some errors. (DR 14226)

The WarnGen QC does not flag the changing of the third bullet “AT <time>...” to “AROUND <time>...”. Also it does not flag putting extra “\$\$” after the forecaster’s initials at the bottom of the products.

Problem. Storm path sometimes missing in WarnGen follow-up. (DR 14547)

In some cases, when a WarnGen follow-up product is requested, no storm path arrow appears on D2D (the warning box appears OK). Instead of the arrow, the “drag me to storm” dot appears within the warning box. The problem seems to occur when the third bullet of a warning has a missing or badly formatted storm “movement” clause. WarnGen parses the warning to find the storm movement and if a valid movement can not be found, it makes sense that WarnGen would not be able to show a storm path on D2D. In the future, it would be better if we were to use lat/lon coordinates to define the storm path.

Workaround. The “drag me to storm” dot can be moved to the current storm location which will result in a random incorrect storm path. Then the previous storm location can be set in a previous radar frame and a correct storm path results.

Problem. The D2D clock has trouble when setting the clock back five seconds near the top of the minute. (DR 15695)

The D2d clock is set back to set WarnGen into Test mode. When you set the clock back 5 minutes and the time in seconds is less than 4 seconds past the minute, the minute will not decrease and thus the software will not go into Test mode. For example, if the time is 9:20:02, and you click the seconds back 6 seconds, the resultant time is 9:20:57– a time in the future.

Workaround. You have to manually change the minute to 1 minute prior (e.g. 9:19:57 in the example above). The procedures work fine if the seconds are greater than 4 (i.e., 5 through 59).

Problem. The WarnGen Storm Motion will default to zero storm motion and a single storm format, if the third bullet is ambiguous. (DR 15839)

WarnGen uses the third bullet in the original warning to place the GUI for corrections, follow-ups, and partial cancellations. If this third bullet is ambiguous in terms of the storm location and storm motion, then WarnGen defaults to zero storm motion and a single storm format.

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

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

Problem. WMO is incorrectly inserted into MND header upon SEND from textWS. (DR 16627)

While in test mode and issuing either a FLW or FLS product, the product looks ok when created but when you hit SEND and OK at the stop sign, you get an error because the WMO header info was inserted into the MND header.

Workaround. Restart D2D and textWS.

Problem. SVS failed to produce CRS product. (DR 15295)

When creating a follow-up SVS for a SVR, WWA produced a text product but did not create a CRS product. WWA expected a zone based product but warnGen created a county based product.

Problem. Severe Thunderstorm Warning has spurious commas in NWR browser. (DR 15320)

When a Severe Thunderstorm Warning is created in WarnGen, issued to the CRS, and then viewed in

NWRBrowser, there were commas where bullets should be and some “...” existed in the WarnGen version.

Workaround. This requires manual intervention to correct probable mistakes prior to sending to the CRS.

Problem. NWSRFS IFP does not display colors as designed when alert request window is up. (DR 4240)

When running NWSRFS IFP on a monitor on which an Alert Request window is displayed, the NWSRFS IFP window sometimes does not display the colors as designed. This makes some data in the application unreadable for the user. This was noted in the Forecast Group Topology and IFP Plot windows, and may be a problem in other windows too.

Workaround. This is a color-contention problem. Close the alert window and restart NWSRFS IFP. Minimal operational impact.

Problem. DamCrest fails to store new Dam failure scenario. (DR 15334)

When adding new items to scenariolist, DamCrest fails to save newly added items in the GUI. An Error: could not update Sb bin database table is produced. The Dam Cat entry is not updated either.

Problem. DamCrest- close button does not work. (DR 15335)

The close button does not work. It asks you if you would like to save, but remains open.

Workaround. You must use the X button to actually exit.

Problem. DamCrest graphics tab print not working. (DR 15382)

When in the Output manager window, the graphics tab information is not fully printed. It is caused a Java overflow memory error.

Problem. BBS download requires both UNIX account and LdadScheduler user. (DR 2470)

Workaround. Ensure that a UNIX account for BBS has a matching LdadScheduler user setup with a protocol selected in the protocol selection area. If a mismatch exists, the error referencing /ldad/bin/sz permissions will be displayed to the external user attempting to download data.

Problem. Xmodem and Ymodem BBS download adds extraneous characters. (DR 3605)

While using the LDAD BBS X and Y modem protocols, extraneous characters are added to the downloaded files. The extra characters are added at the end of the file.

Workaround. Use Kermit or Zmodem protocols for download.

Problem. Problems occur during downloads using Zmodem protocol in LDAD BBS. (DR 4089)

When using the Zmodem protocol to download in the LDAD BBS, the product requested is downloaded from the LDAD server as well as other products that are in the BBS menu. The product that is requested is downloaded first, then the cursor goes to the next product listed in the menu and downloads that product. This process repeats multiple times.

Workaround. None. There is no operational impact.

Problem. Xmodem receive does not work in the BBS. (DR 11869)

Within the BBS, downloading a file to the local computer does not work using Xmodem. An error message is received stating "Error limit exceeded".

Workaround. Use any other type of transfer, such as Kermit, Ymodem, or Zmodem.

Problem. Files are reported as missing when EMDS is launched from a browser. (DR 7099)

When EMDS is launched from a browser, it requests files that do not exist on the LS1 web server. The LS1 fasttrack error log reports:

can't find /data/ldad/emwww/htdocs/localConfig/Graphic.mnu (No such file or directory)
can't find /data/ldad/emwww/htdocs/localConfig/Probe.mnu (No such file or directory)
can't find /data/ldad/emwww/htdocs/localConfig/Scroll.mnu (No such file or directory)
can't find /data/ldad/emwww/htdocs/localConfig/Text.mnu (No such file or directory)

can't find /data/ldad/www/htdocs/icons/grytxtr5.jpg (No such file or directory)

These files are not in the specified location on LS1.

Problem. The hmIngest process intermittently fails to process obs data. (DR 10554)

Two or three hours each day, on average, the hmIngest process fails to successfully process the hourly METAR netCDF file due to EOFExceptions or NullPointerExceptions. Thus, on these hours, no graphical observation data are available to the user.

Workaround. Use the text pane to view the text versions of the METAR observations or to refer to the SWR products.

Problem. Adding a new menu item in the configurator sometimes gives the wrong color and parent. (DR 7370)

When a user adds a new menu item in the configurator, sometimes the menu item is given the wrong color and parent. The menu item is off by a line or more when viewed in the menu.

Workaround. This is an infrequent problem. If the menu item is hard to read or does not respond, use the configurator to delete and recreate it.

Problem. The LocalizeWWW.pl script does not clean up /tmp/stationFiles after running. (DR 8092)

Running LocalizeWWW.pl creates a /tmp/stationFiles directory on LS1 that it never removes. This causes an error message to appear the next time the script is run.

Workaround. Remove the directory manually before running LocalizeWWW.pl again if desired. However, the error message has no impact on the success of the script.

Problem. The PostConfigure.pl script has an rcp error. (DR 8094)

As part of its operation, PostConfigure.pl tries to copy a file onto the DS from the LS, but fails, stating "rcp: /awips/ldad/data/: No such file or directory".

Workaround. None. However, this does not seem to cause any problems, so ignore the error message when it occurs a line before "Finished: Remotely modifying the Graphic.menu and pollForData.conf files."

Problem. Switching between Probe methods back to the Draw Area Probe method crashes the display pane. (DR 10397)

There are several different methods by which data can be probed in EMDS. Once a probe session has begun, the user can freely switch from one probe method to another within the same probe session, with the exception of Draw Area to Probe. The user can use Draw Area to Probe successfully if it is the first method selected during a probe session. However, within the same probe session, if the user chooses a different probe method first, and then chooses Draw Area, or uses Draw Area first, switches to another method, and then back to Draw Area, the graphics pane being used for the Probe crashes. The pane goes completely black and loses all of its displayed data and menu items.

Workaround. Select the Clear button to restart the crashed pane.

Problem. Adding new parameters to a Probe list is not always successful. (DR 8902)

While using Probe, the user can remove or add items to the list of parameters being probed (e.g., remove temperature or add wind). Sometimes, when a parameter is added to the list, there is a lag until it fully becomes part of the list. Normally, an added parameter takes effect on the next move within a Probe session (e.g., choose a different county to probe). The parameter is added to the list with its respective values. However, if a particular parameter is added to the list for the first time during an EMDS session, and a Time Series graph is being displayed in the Probe window, a new line for the parameter is added to the list, but the name and values all say N/A. The name and values do not fill in until the NEXT probe move is made. The data are there though, as you can graph a time series of the N/A data, and actual data does graph, although the name of the data is N/A.

Workaround. Choose another county/zone/etc to probe, and the N/As will fill in with the name and values of the parameter.

Problem. The observed wind barb parameter is not displayable on the graphics pane. (DR 9056)

When attempting to load Wind Barb from the Observations -> metar menu of the graphics pane, the following error occurs in the java console window:

```
"Could not fetch parm from server. Either gray text error in MenuDyna or Incompatible file format data/vobs-metar-WindVector-national-0103080720...dat = null"
```

The product does not display in the graphics pane.

Workaround. Users can get wind information from the METAR observations and hourly weather roundup products in the text pane.

Problem. Clearing a probe area on the graphics pane by toggling the menu item also toggles the map background. (DR 9057)

Many products can be cleared from the graphics pane by selecting the menu item again to toggle the product off. Probe areas that have been outlined on the graphics pane can be cleared in such a manner. However, when the probe action menu item is selected to toggle off the probe area, the map background is also toggled off, leaving a display with no background. This seems to happen most often when the counties map background is displayed, which is the default map background.

Workaround. The map background can be easily toggled back on by selecting the appropriate map background from the Geography menu.

Problem. Replacing displayed images with ones that have not yet been displayed causes a traceback. (DR 9069)

An image displayed in the graphics pane can be replaced with another image by selecting the new image from the menu. If it is the first time in the current EMDS GUI session that the new image has been loaded, the java console window reports tracebacks as follows:

```
Exception occurred during event dispatching: java.lang.NullPointerException
```

This occurs especially if any of the animation tool bar buttons have been selected, such as looping. In addition to the tracebacks, the animation function stops, and often the cursor becomes a paintbrush painting the screen with the new image as it is moved about the screen.

Workaround. Select another tool bar button and the image will load and display successfully. No other negative effects have been seen. Once the product is loaded once, the problem no longer occurs for that product if it is loaded again during the current session.

Problem. MenuConfigurator reports an error on startup. (DR 9084)

When the MenuConfigurator is started, in the java console window, the following error is reported:

```
MenuDyna.java 258 ERROR: IOException = java.io.IOException: Cannot find  
URL Cont
```

```
ext=http://140.188.2.141/localizations/BOX/wkspace and spec=Xtensibl.mnu
```

This is because the file is actually Xtensibl.frm. This does not seem to cause any problems with editing Text menus in the configurator, but it may cause problems when editing and creating graphics products and map backgrounds.

Problem. Newer NWS sites are not in map background and may not be configured. (DR 9085)

The newer NWS AWIPS sites that were added to the deployment, namely Key West, Huntsville, and sites in Maine and Indiana, are not included in the map background NWS Forecast Offices. They may also therefore not be set up as configurable sites. If that is the case, web dissemination will not be localizable to these sites.

Workaround. Manually edit localization files from other sites to tailor them to the new sites.

Problem. The hmIngest process does not process leftover files in /data/ldad/hmIngest. (DR 9174)

If hmIngest fails to process files in /ldad/data/hmIngest for any reason, when proper processing resumes, hmIngest does not process those leftover files. Instead it merely resumes processing with new products as they come in. So unlike a decoder, which cleans out its input directory, the products that hmIngest missed the first time are not retrieved, and thus are lost. The products are eventually purged.

Problem. The list of files to synch is blank if too many files are involved. (DR 9175)

During a synchronization, EMDS checks to see which files on the user's PC need to be synched with those on the LS. Once this list of files is determined, the user is given the list of files to be synched and asked if he wants to synch. If the number of files to be synched is too large, no list of files is presented to the user. The window tells the user the following files are to be synched, but then does not list any files. This could cause confusion, and possibly cause the user to choose not to synch when he should.

Workaround. If the synch window appears, asking if you want to synch, but does not list any files to be synched, choose yes to perform the synch.

Problem. The scroll bar in the menu configurator GUI does not scroll. (DR 9176)

In the menu configurator GUI, the user can expand menus in the headers to see the sub-items. However, if the menus are expanded down such that they exceed the length of the window, the scroll bar does not allow you to scroll down to see the other menus.

Workaround. Contract some of the menus in order to see the lower ones.

Problem. Sampled text does not wrap at edge of pane. (DR 9232)

When sampling in the graphics pane, the sampled text adjusts and displays to the right or left of the cursor as necessary to be displayed in the pane. However, if the text is still too long, it displays to the edge of the pane and then gets cut off. The rest of the text does not wrap, and thus is not displayable.

Workaround. None. The extent of the impact caused by this problem will depend on the monitor size and screen resolution of each user's monitor.

Problem. The link for HP developers is incorrect. (DR 11226)

On the Download Page of the EMDS web page, there is a link to go to HP for more information on HP-UX. However, this link has been changed by HP. The new link is <http://www.hp.com/go/developers>.

Workaround. Use the new link to view information for HP developers.

Problem. Synchronization from within the EMDS GUI does not work. (DR 11353)

There are basically three ways to synchronize the EMDS application: 1) use the synchhexe application; 2) synch as the first step to bringing up the EMDS GUI; or 3) synch from within the EMDS GUI using the Synchronize Application menu item from the File menu of a graphics pane. This third method does not work. When it is chosen, the cursor momentarily goes to an hourglass, but then nothing happens. The java console window reports the following:

```
MenuDyna.java 538 ERROR: IOException on Bean instantiate: Package/Class Name =l  
dadapp.util.syncBean
```

Workaround. Use either of the first two options noted above to synch the application.

Problem. First time loading the Wind Vector contour product produces a java traceback. (DR 11354)

When the Local scale Wind Vector contour product is displayed on a graphics pane for the first time in an EMDS session, a java traceback scrolls in the java console window. However, the product does load successfully on the screen, and all subsequent displays of this product within the same EMDS session load without any java traceback. No other ill effects have been noticed from this error occurring.

Workaround. None, but no operational impact.

Problem. The ifps grids fail to be processed by hmingest. (DR 13606)

The ifps grids that can be sent from AWIPS to EMDS for display on the EMDS GUI fail to be processed by hmingest. See error below. The result is that the user is unable to display any forecast grids on the EMDS GUI.

```
Dec11-17:06:25GMT[IngestShell:IngestHandler]> EVENT: IngestHandler.readMessage(): ,
_fileType = model:ifp:Official:national,
_fileName=/data/ldad/hmIngest/model-ifp-Official-national.20031211_1650.1071162621
```

```
Dec11-17:06:25GMT[IngestShell:IngestShell]> EVENT: run(): ERROR: ,
currentThread().hashCode() = 251236959hmlib.utils.TaskReqError: [IngestShell.makeRequest]
A request cannot be assigned to a task: Mill name model-ifp-nationalMill is not configured.
```

Problem. The LDAD Scheduler does not support interrogation of password-protected Sutron gauges. (DR 8777)

Sutron gauges have the capacity to require a username and password in order to be interrogated. The LDAD Scheduler currently does not have the capability to interrogate such a gauge.

Problem. The LDAD triggers template is too restrictive. (DR 4865)

Several entries in the LDAD triggers template do not create useful PILs when matched with the ldadSiteConfig.txt directives. For example, in the QC products (00nQCa), the XXX matches the local site ID, while the directive ww1 used in the template may use the AFOS node for other reasons.

Workaround. Users need to go in and edit their triggers. Refer to the System Manager's Manual for more information on editing triggers.

Problem. qcstats.exe hanging at some sites. (DR 16504)

Workaround. SST to work with sites to filter the data.

Problem. The MaritimeDecoder does not decode Coast Guard reports. (DR 3697)

These reports are used by the Hourly Weather Roundup.

Problem. LightningPlotInventory acquisition has a logic flaw. (DR 4519)

The constructor for the LightningPlotAccessor class uses a time range to obtain CG lightning data. It uses the LightningPlotInventory class to get the valid inventory from that time range. However, if that time range overlaps the hour (i.e., 1358 to 1404), the function LightningPlotInventory::numRecords() fails to count ANY lightning data. It fails because it uses the minutes as a loop variable, but when the end time minutes (04) is less than the start time minutes (58), the loop is never entered.

Workaround. There is a small chance of losing lightning data at the top of the hour. However, this is unlikely because no data selections currently on D2D cross hour boundaries.

Problem. First Red Banner is not received when failing back an AS swap package. (DR 2494)

When failing back either AS swap package to its primary, the first Red Banner message announcing that a swap is in progress seldom appears on the D2Ds. The second Red Banner message announcing the swap is completed is successfully received.

Problem. The process monitor shows LAPS as being in a red state during a failover of AS1 to AS2. (DR 3737)

When AS1 is failed over to AS2, LAPS processes are not supposed to run. The process monitor reports this by showing LAPS processes as being in a down (red) state. This is correct, but it may make a site think it can restart the processes. This would be a mistake, causing other processes to be restarted but not fixing LAPS.

Workaround. None. Do not attempt to restart LAPS when either AS is in failover mode.

Problem. Simpack failover is slow when DS1 is disconnected from the FDDI ring. (DR 4562)

When a Simpack failover is performed while DS1 is disconnected from the FDDI ring (or possibly also if it is powered off), the Simpack swap slows to a crawl, and the following time out message is displayed 4 times "rcmd: connect: ds1-<site>: connection timed out". The swap eventually completes, but this adds about 4 minutes to the swap time.

Workaround. If possible, ensure that DS1 is connected to the FDDI ring before performing a Simpack failover, even if DS2 is the primary Data Server at the moment.

Problem. Process Monitor becomes confused during failover. (DR 4856)

During failover, the Process Monitor becomes confused about which system it is running on. As a result, processes are shown running on several systems.

Workaround. Ignore the monitor during the failover and then wait a few minutes for things to sync up.

Problem. MetarDecoder reports numerous errors for a period of time after a DS swap. (DR 6521)

After a DS1 swap to DS2, the MetarDecoder reports numerous errors for a period of time when trying to decode products. The period of time is about an hour.

Workaround. None. The METAR reports are stored successfully despite these errors.

Problem. The /opt/informix partition becomes stale on the workstations during DS swap. (DR 9078)

Some processes may remain connected to /opt/informix during a DS swap, causing the partition to become stale on one or more workstations. It has been known to occur when hydrology applications are running on the workstation.

Workaround. Kill the process(es) that is still accessing /opt/informix and execute the unmount/mount commands.

Problem. MC/ServiceGuard may generate core files during system reboot. (DR 10418)

If ServiceGuard does not handle a site system reboot smoothly, it may generate huge core files in ds1:/var/adm/crash/. This causes /var to fill to 100 percent. The INDEX file indicates a "TOC" error in these situations. This appears to only happen with K-series servers.

Workaround. The reboot completes successfully despite this problem. Simply remove the core files from /var to avoid filling up the disk space.

Problem. WarnGen is very slow to create text if D2D is not restarted after a DS swap. (DR 10678)

If a D2D is not restarted after a DS swap occurs, a WarnGen session run from that D2D will take one to two minutes to create text on the text workstation when the Create Text button is selected in the WarnGen GUI.

Workaround. Restart all D2Ds after a DS swap occurs.

Problem. Some WWA messages log to the DS swap package control log. (DR 10683)

Workaround. Refer to the DS swap control log in addition to the WWA log when analyzing WWA operation.

Problem. SIMPACT failover does not execute cleanly when dsswap is on DS2. (DR 11324)

When executing a SIMPACT failover while the dsswap package is on DS2, the CP_Reconfigure script returns the following error:

```
rcmd: connect: ds1-osfw: Connection timed out.
```

The VIRs swap over, but the logical software links do not (in /awips/fxa/bin).

Workaround. Contact the NCF for assistance in re-establishing radar connectivity on SIMPACT 2.

Problem. LSR may not function properly after a DS swap. (DR 11969)

Workaround. Log out of, and back into, the workstation and LSR will then function properly.

Problem. Occasionally some scheduled gauge collections fail after a DS fail-back. (DR 12742)

Occasionally, after the dsswap package is failed back from DS2 to DS1, scheduled gauge collections may fail, resulting in repeated tell_co errors.

Workaround. Check all scheduled requests after a dsswap failback to DS1. If they are not working, reset them.

Problem. After ftp is disabled, Simpacts cannot be restarted. (DR 14169)

During disabling of ftp (and all other encrypted remote access), Simpacts would fail to run on a reboot. The problem is that simpacts use ftp to load the Simpack configuration on start-up.

Workaround. Re-enable ftp on the DS whenever a Simpack needs to be restarted/rebooted.

Problem. When the router is not available, the PX/DX packages will fail over. (DR 15724)

When ever the PX or DX lose connectivity to the site router, they will usually fail over. This is because of a freeware error in the heartbeat software. In the near future, a new version of heartbeat will be installed that has the fix.

Problem. Logging in as oper on Linux produces a message indicating the tabs command is not found. (DR 10431)

The /home/oper/.profile produces the following message when the oper user logs into a Linux workstation:

```
ksh: /home/oper/.profile[17]: tabs: not found
```

The tabs command does not exist on the Linux operating system.

Workaround. This message does not cause any problems and can be ignored.

Problem. The readenv script may not recreate the /tmp/environs.* files in some cases on Linux. (DR 11592)

When the fxa environment changes and the readenv script is called, it recreates the environs files in /tmp. However, in some cases this does not happen, and the files just get appended to. For example, if the environs files in /tmp are owned by awipsusr, and the environment changes, the script logs into the Linux workstation as fxa and is unable to remove the files in /tmp. Instead, the files get appended to. This could ultimately result in these files becoming very large, which would cause the sourcing of the environment to take time. There are two problems. First, the -f option for the rm command in readenv.csh is missing. Second the -f command for rm on Linux does not work the same way as it did on HP-UX. The -f option for rm on Linux does not allow a user to delete a file owned by another user, even if the permissions are 777.

Workaround. None, but operational impact should be minimal. The environs files in /tmp are remade every 30 days when the root cron cleans out /tmp.

Problem. Limit the root no-password access to other users (on local and other machines). (DR 14350)

There is a need to keep root's SSH no-password access to other users consistent for all users on local and remote machines. The main concern is the extra overhead needed to support the `authorized_keys` for all the extra users on the system.

Workaround. When setting up SSH access, no-password access should be limited since this may be disallowed at a future date.

Problem. RPS List Editor—when trying to select a product and an error is returned. (DR 15204)

When an operator tries to select a product to “Add” to an RPS List - SW for example, and an incorrect Data Level is selected, the operator will see: “The product requested is not valid. Please ensure that the combination of settings you have chosen are correct, then resubmit.” The Add Product GUI then exits and the operator has to invoke the GUI again to try to add the products. The Add Product GUI should remain in place to allow the operator the chance to correct the settings and add the product.

Problem. Design files and virtual field table do not handle dangling delimiter well. (DR 9316)

For both the code that parses the virtual field table for gridded data (i.e., `virtualFieldTable.txt`), and the code that parses design files for point data (e.g., `metarStdDesign.txt`), if one leaves an extra dangling delimiter at the end of the line, the code treats the dangling delimiter as an additional blank entry. This often causes behavior that the user does not expect and is very hard to diagnose. In the `virtualFieldTable.txt` file, the offending delimiter is a vertical bar. In the point data files, the offending delimiter is a space.

Workaround. When performing site modifications to the file types cited above, be sure that no dangling delimiters are introduced into the files.

Problem. Localizations (mainScript.csh) run concurrently cause file contention. (DR 10090)

Attempting to run localizations on multiple workstations concurrently generates errors due to the naming convention of the temporary files the localization generates and uses. The localizations on each workstation try to use the same temp files (e.g., `work.bcd`, `work2.bcd`) that are stored in `/awips/fxa/data/localization/nationalData`.

Workaround. Do not run concurrent localizations on the servers or workstations.

Problem. Localization creates unnecessary default RPS lists. (DR 10697)

During localization, default RPS lists are created for both dedicated and dial radars. However, only dedicated radars need default RPS lists. The dial radar default RPS lists that are created are not needed and cause localization to run longer than necessary.

Workaround. None. Simply ignore the default RPS lists that get created for dial radars.

Problem. Linux CPs miss a file when the -radar localization is run on DS1. (DR 10756)

The CP reads some acq_wmo_parms.* files upon start-up to control filtering of data. While most of these files are fairly static and are controlled as part of the national baseline, there is one exception. The acq_wmo_parms.sbn.radar file is created every time a -radar localization is run on the DS. This file is created in /awips/hprt/data, which is no longer mounted on the Linux CP, whereas it was on the HP CP. While the file is recreated every time by the localization, this file only changes if changes are made to the dialRadars file. If changes are made to this file, the Linux CP will never know them.

Workaround. Run the script /home/awipsadm/Update_LinuxCP as user root on DS1. This copies the file over to the Linux CPs and reloads the parms files.

Problem. After a localization on PX for grids, the GribDecoder logged errors. (DR 11029)

After running a localization on PX1 for grids, the GribDecoder wrote error messages to stdout while running. However, this did not seem to cause any problems with data processing.

Problem. Dell utilities do not work on the PX's. (15942)

Dell utilities do not work on the PX's. The problem is due to using software raid on the PX's.

Problem. Keyword links in Netscape Script help windows do not work. (DR 4120)

The Keyword section at the bottom of all Text Script Netscape help windows has dead end links. There appear to be no defined help pages for these key words.

Problem. Four-panel displays do not print correctly. (DR 602)

Printing a 4-panel display produces a mess of all contours plotted on a single map background. An information box appears indicating that printing 4-panel displays is not currently supported.

Problem. The MMG text products cannot be printed from the text window. (DR 13260)

The national marine products in the MMG series (e.g. MMGNE1 and MMGSE1) have extra garbage characters on line 3 that prevent the products from being printed from the text window. The extra characters are normally "\x1e", and are only seen via the text window.

Workaround. In a Telnet window, save the product to a text file using:

```
textdb -r NNNXXX > filename
```

Then print the file.

Problem. The Netscape Monitor sometimes stops working or reverts back to a previous date after a server swap. (DR 4229)

After server swaps, some panes of Netscape either stop updating from that point on, or revert back to a previous date and then resume updating normally after a few minutes.

Workaround. Reload the Netscape Monitor.

Problem. Running the CPU history monitor from Netscape produces zombie processes. (DR 5154)

Running the CPU history monitor from the Ingest Processes section of Netscape produces a zombie csh process owned by fxa on that workstation, and a zombie cpu-setup.sh process owned by www on AS1.

Workaround. Both zombie processes die when the CPU history monitor is closed. These zombie processes do not appear to affect the operation of the Netscape, CPU history monitor, or the workstation.

Problem. There are intermittent broken icons in the Netscape monitor. (DR 13702)

The icon images on the Netscape monitor sometimes appear to be broken, but then reappear upon a refresh.

Workaround. None needed. The information displayed on the Netscape monitor continues to be correct even when the icon images are not displayed.

Problem. When Exit is selected from Alert Areas tool, all the displayed graphics are cleared, not only those associated with the Alert Areas Editor. (DR 6253)

Workaround. Re-load all the graphics that are cleared.

Problem. Too much radar data is being stored via the SBN. (DR 6407)

For many western sights, the dialRadars.txt file is quite large. The acq_wmo_parms.sbn.radar file, which tells the CP which radar products to keep from the SBN, is created from this file in addition to the wmoSiteInfo.txt file. All of this radar data is processed and stored on the system regardless of whether the site is utilizing all of the sites.

Workaround. Comment out or remove entries from acq_wmo_parms.sbn.radar for sites which are not being utilized or remove those sites from dialRadars.txt.

Problem. Bogus startup of syncComms cs_config1. (DR 6503)

At a few sites, there were numerous wfoApi logs in /data/logs/fxa/<date> complaining about not being able to start up port 1 because it was not found in the portInfo.txt file. These sites did not have any radar lines connected to port 1.

Workaround. Issue an icpReset0 to realign the port assignments.

Problem. The restartRadar process writes to fxa's mail. (DR 10386)

Workaround. None. Refer to fxa's mail for messages from restartRadar as necessary. Clean out fxa's mail manually if disk space becomes an issue.

Problem. FTMs are issued by all sites with dedicated radar connections. (DR 10795)

All sites with a dedicated radar connection issue FTMs when that radar connection is down for maintenance or repair work. However, only the primary site for that radar needs to issue the FTM. For example, MOB is the primary site for the KMOB radar, and JAN has an associated feed. However, when the radar goes down for scheduled maintenance, both MOB and JAN issue FTMs. Even RFCs and Regional offices issue FTMs on the radars from which they have a feed. The result is that multiple FTMs are issued when a radar goes down for maintenance. The only time an associated site would need to issue the FTM is if the primary site is down.

Workaround. None. Ignore the multiple issuances of the FTM product.

Problem. The RadarTextDecoder reports an error when attempting to open an STImotion file. (DR 12594)

The RadarTextDecoder process reports the following for STI products received for the site's dedicated radars:

```
20:51:48.265 decodeRadarText.C EVENT: Processing file:
Graphic.2003050720514797.KAKQ
```

```
20:51:48.271 decodeRadarText.C EVENT: Processing code: 58
```

```
20:51:48.272 decodeRadarText.C EVENT: Generating Text Product.
```

```
20:51:48.288 textRoutines.C Unable to open file
/data/fxa/radar/kakq/STImotion/20030507_2051: No such file or directory
```

```
20:51:48.296 textRoutines.C EVENT: Writing: WSRSTIAKQ
```

There is no STImotion directory, although there is an STI directory, and STI products are stored there successfully and are displayable on D2D. As the log shows, the WSRSTIXXX text product does store successfully despite this error message.

Problem. The wfoApi.StateInfo file does not get updated completely when the VCP mode changes to VCP 11. (DR 12837)

If a dedicated radar is in VCP mode 21 and switches to VCP 11, the RadarServer does not change the fifth field for that radar in the /data/fxa/workFiles/wfoApi.StateInfo file from 21 to 11. While radar functionality is not affected by this, this could cause confusion for a user looking at this file.

Problem. The wfoApi process can become hung. (DR 12839)

Infrequently, a dedicated radar's wfoApi process can become hung, creating wfoApi logs several times a minute reporting a 'null' port value.

Workaround. Execute the stopRadar script and then allow the fxa cron to re-establish the active ports.

Problem. MEMMTR000 includes METAR observations that it should not. (DR 6740)

KNAR reported that a MEMMTR000 request from a text window brought up additional METAR observations that should not be included (KAHN, KAKQ, KGDB, KJCT, KJUP). These were also listed in the text window browser. It appears that the file used to map the CCC with the NNN may be wrong at least for KNAR.

Workaround. None; the extra data can be ignored.

Problem. The stopIngest scripts report minor error messages. (DR 3518)

For example, stopIngest.* attempts to stop some processes twice, and thus gives multiple messages:

```
"/awips/fxa/bin/stopIngest.ds1[50]: kill: The number of parameters specified is not correct."
```

It usually kills the processes on the first attempt (but not always). The stopIngest.ds1 and stopLdadIngest scripts also attempt to stop unowned processes (ldad CommsRouter and DataController versus the fxa version) and give the following error: "kill: 21030: Permission denied."

These errors are very minor, but could cause concern for users trying to troubleshoot logs.

Workaround. Ignore the error messages. They do not affect the outcome of the scripts.

Problem. DataController logs stop, but do not restart. (DR 5742)

Sometimes one of the DataController logs terminates normally around 0Z, but fails to restart a new log for the new day. The processes are up and running, but new logs are not created.

Workaround. Stop and restart ingest to start the logs again.

Problem. The Announcer logs do not display the correct time stamps. (DR 10825)

The SYSTEM and RADAR Announcer logs in /data/fxa/workFiles should display the date at the beginning of each line, but instead are displaying a string of numbers.

Problem. Error reported in BufrDriver goes soundings logs. (DR 11172)

The following error appears in the BufrDriver logs for the GOES soundings once or twice a day:

```
BufrDriver20332as1-tbdw002705:00:27:58.226 NetcdfPointData.C nClientlessHandles 0  
fileOpenCount 12
```

The log always shows the decoder successfully moving on to the next file after this message.

Problem. A PROBLEM message is sometimes reported in the BufrDriver logs. (DR 12368)

The following PROBLEM message is seen in the BufrDriver goes and hdw logs a few times per day:

```
09:57:43.546 NetcdfPointData.C nClientlessHandles 0 fileOpenCount: 18
```


Workaround. None, but no operational impact. GOES and HDW products are still processed and stored successfully despite these messages.

Problem. POES and GOES sounding data are stored twice at some sites. (DR 12542)

This is because the entries for these data are listed twice in the acq_patterns.txt file on PX2. The acqserver reports the following when processing this data:

```
acqserver 21928 00:28:26.520 EVENT: NCF_ENTRY: JUTX06 KNES 250027 Cat:
POINT 104295 #85408234
```

```
acqserver 21928 00:28:26.520 EVENT: NCF_STORE: JUTX06 KNES stored in
/data/fxa/ispan/bufr/GOESSoundings/JUTX06KNES.25002826.295
```

```
acqserver 21928 00:28:26.520 EVENT: NCF_STORE: JUTX06 KNES stored in
/data/fxa/ispan/bufr/GOESSoundings/JUTX06KNES.25002826.295
```

```
acqserver 21928 00:28:26.521 NCF_FAIL link failed 4:
/data/fxa/tmp/point/JUTX06KNES.25002826.295
```

```
/data/fxa/ispan/bufr/GOESSoundings/JUTX06KNES.25002826.295 File exists
```

The data are still stored and then processed by the appropriate BufrDrivers successfully despite this problem.

Problem: The CommsRouter COMMS_ROUTER logs an error upon startup. (DR 13516)

The CommsRouter COMMS_ROUTER process on DS1 logs an error upon start up, as shown below.

```
19:12:10.466 IPC_Target.C Can't name IPC_Target:
@^C{^CM-8x{^CM-8M-^X{^CM-9M-x{^CM-: Not a known named target defined in
ipc.config
```

Problem. Two StdDBDecoders possible due to Partial Write. (DR 14897)

It is possible to have two StdDBDecoders running due to a second StdDBDecoder being spawned to handle Partial Writes. The second decoder is not spawned until a Partial Write occurs.

Workaround. This decoder does not process any data nor does it take up CPU. It can be killed with a stop/start ingest.

Problem. Two DataControllers possible due to Partial Writes. (DR 14898)

The second Data Controller does not process any information beyond the partial writes.

Workaround. Does not take up any CPU or log.

Problem. Requests are not queued when the MhsRequestServer is down. (DR 3820)

Requests that are made through the Request/Reply function when the MhsRequestServer is down are not acknowledged by the MhsRequestServer and are thus lost.

Problem. MHS - error deleting nack file. (DR 4090)

The MhsServer errors when trying to delete a nack file after notifying the user. The error message is as follows:

```
02:06:05.768 MhsWfoProduct.C Error deleting nack file:
/data/fxa/mhs/nackq/TBW3-16123.doc: No such file or directory.
```

The reason is the file is actually named TBW3-16123-TBW4.doc.

Workaround. This should not be a problem, as the MhsPurger daily cleans out this directory. The MhsServer handles ack file names correctly and is able to delete them.

Problem. WAN OTRs can cause status log of receiving ORPG to fill. (DR 14450)

ROC reported that many WAN OTRs were received from TBDR causing the ORPG's status log to fill. It has been suggested that AWIPS should stop sending OTRs after a certain number of OTRs fail.

Problem. Alaska hydrology data is not ingested. (DR 4534)

A large portion of Alaska's hydrology (SHEF) data has a header of SRUS32.KWOH. This is not in the baseline /awips/fxa/data/acq_patterns.txt file. The Alaska sites have it in their acq_patterns.txt file, but this file will be replaced during the installs.

Workaround. The workaround is to add additional acq_patterns that they want to their /awips/fxa/data/localization/<siteID>/<siteID>-acqPatternAddOns.txt file.

Problem. Localization errors occur on the OCONUS system. (DR 9527)

The following errors are seen during localization on the OCONUS system:

```
running makeClipSupcs.csh
grep: can't open /awips/fxa/data/lampGrid%%nx%%ny.cdl
grep: can't open /awips/fxa/data/lampGrid%%nx%%ny.cdl
grep: can't open /awips/fxa/data/lampGrid%%nx%%ny.cdl
grep: can't open /awips/fxa/data/lampGrid%%nx%%ny.cdl
insufficient arguments for corners option.
```

Problem: The /awips.install/host_config_file is incorrect for the GUM CPs. (DR 12792)

The GUM CP entries should show 4 demods, rather than 2:

```
cpsbn1-gum pr.awips.noaa.gov 165.92.174.50 4
cpsbn2-gum pr.awips.noaa.gov 165.92.174.51 4
```

This problem applies only to GUM and will be noticed only when a GUM CP is reloaded from an image.

Workaround. If a CP is reloaded from an image, edit the `host_config_file` for the appropriate entries and re-run `start_newhost`.

Problem. The `lvd_sat_ingest` script looks for westCONUS data. (DR 11214)

At OCONUS sites, the `lvd_sat_ingest` script looks for data in `/data/fxa/sat/SBN/netCDF/westCONUS`, but there are no files in this directory at these sites. The projections available at the OCONUS sites are different, and LAPS is not set up to use them. LAPS runs without any problems even though it cannot find the satellite data, but of course it is thus not using all of the data available to it.

Problem. State/County Boundaries Legend appears twice at Alaska sites. (DR 4524)

If “State/County” is selected from the “Maps” menu at State scale, a second State/County map legend appears in addition to the default State/County map feature. The two map features are almost identical and can be distinguished only by zooming in very close.

Workaround. Remove one of the duplicate map features manually if desired, but the presence of duplicates does not appear to cause any problems.

Problem. Longitude is not available far enough to the west in Product Maker. (DR 2537)

Choices in the Longitude menu of the Product Maker only go west to 180W. Longitudes beyond this are not available selections.

Workaround. None. Restrict longitude selections to 120W or less.

Problem. Cannot load satellite images from Product Maker for Guam. (DR 4459)

The user cannot load any satellite images from Product Maker for Guam at any scale. When you try to load the image the following Tcl error is displayed:

```
Error:can't read "keyname": no such variable.
```

Problem. The GOES Sounder Imagery CONUS sectors should be removed from OCONUS sites. (DR 13545)

CONUS GOES Sounder Imagery does not display or loop properly at OCONUS sites. This is due to the non-matching times of the scans and because the CONUS area is somewhat (or completely) off the OCONUS maps. Therefore, the CONUS imagery should be disabled at Pacific Region sites. For the Alaska Region, all East CONUS imagery should be disabled (the West CONUS imagery should be retained, since it is somewhat relevant to Alaska sites). Also, GOES Sounder Imagery should be disabled on the relatively local scales of the Alaska sites (i.e., Aleutian & Mainland).

Workaround. None needed. Although the GOES Sounder Imagery menu options are enabled at OCONUS sites (i.e., not grayed out), no harm is done if the menu items are selected. The products are simply not displayed.

Problem. Volume Browser has RUC40 listed in the source. (DR 6436)

The RUC40 model is listed in the Source menu of the Volume Browser at OCONUS sites. However, this model only covers CONUS sites, and thus is not displayable at OCONUS sites.

Problem. ESPVS Data Generation does not work with CPCoutlook data. (DR 14733)

The CPCoutlook data in the netcdf files in /data/fxa/Grid/SBN/netCDF/CONUS211/CPCoutlook does not work with the ESPVS Data Generation.