AWIPS Operational Build 13.4.1: Final Release Notes

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Prepared Under

Contract DG133W-05-CQ-1067
Advanced Weather Interactive Processing System (AWIPS)
Operations and Maintenance

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Change History

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Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July2013   ii

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Table of Contents

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July2013

iii

− Hard copy uncontrolled. Verify effective date prior to use. −

Overview

The Draft Release Notes for AWIPS Operational Build (OB) 13.4.1 have been prepared for use during Field Operational Test & Evaluation (FOT&E) of AWIPS II software release OB13.4.1. These Release Notes, which follow the standard format applied to most AWIPS Release Notes documents, consist of the following five sections:

- **Section 1. Requirements and Enhancement DRs.** This section lists the requirement Discrepancy Reports (DR) identified for the current release. It also lists any enhancement DRs that were incorporated for the current release.

- **Section 2. Passed DRs.** This section lists the 132 DRs that were passed at the Raytheon Facility Test Labs and included in the current release, OB13.4.1. This includes DRs written during the current release as well as DRs deferred from previous releases to this release. [*Note:* All DRs that were passed prior to this release can be accessed through the AWIPS CM Dimensions database.]

- **Section 3. Open DRs and DCSs.** This section addresses DRs (critical) that remain open and have been deferred to the next immediate release and Design Change Specifications (DCS) for the next release. The DRs identified in this section may have been initiated during the current release or during a previous release.

- **Section 4. Design Changes for OB13.4.1.** Design Changes for OB13.4.1 are summarized in this section.

- **Section 5. Known Problems, Workarounds, and Additional Release Notes.** This section provides a lists any workarounds or additional release notes that have been issued for the current release. They are identified by their Release Note title. It also lists any known problems (Priority: 1-Critical), either in the current release or in previous releases, which have been deferred to an unnamed future release. These are identified by the Problem title.

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013　　　　　　　　　　　　A-1

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1. Requirements and Enhancement DRs

This section is reserved for requirement Discrepancy Reports (DR) identified for the current release and any enhancement DRs that incorporated in the current release.

No requirement DRs were identified for the current release, and no enhancement DRs were incorporated in the current release.

2. Passed DRs

This section lists the 132 DRs passed at the Raytheon Facility Test Labs and included in the current release OB13.4.1. These DRs were either written during the current release or deferred from a previous release. [*Note:* All DRs that were passed prior to this release can be accessed through the AWIPS CM Dimensions database.]

The following table identifies each of 132 DRs by number, and briefly describes the problem. Expanded descriptions of the DRs follow the table.

DRs: Release 13.4.1

No.	DR	Description
1	16417	FFMP table slow to respond when changing layers after inital FFMP load
2	16405	ModelSounding decode order of magnitude slower
3	16403	Improve logging for EDEX Bridge
4	16401	Unhandled redbook packet errors
5	16396	FFMP VGB's show duplicates and/or don't show up at all
6	16395	Fix memory leak in FFMPResource
7	16393	Performance Housekeeping: Java Qpidd Broker Setup
8	16389	Performance Housekeeping: Remove geomag.xml distribution xml from 13.4.1
9	16380	Housekeeping: monitor_qpid_host.sh needs modified to work with java qpidd
10	16375	Change edex-request route receive from byte[] to InputStream
11	16374	AlertViz: UFStatus with message=null not handled properly
12	16373	GFE: NullPointerException thrown if first row in maps database is null
13	16372	FFMP is falling behind with three radars in 13.4.1
14	16369	GFE fails with multiple concurrent users
15	16357	Don't generate pathcast data when not using pathcast
16	16335	Update capture to get data on NAS performance
17	16334	GFE: ifpBreakAllLocks not working
18	16331	Improve efficiency of changing layers in FFMP
19	16324	GFE: Log active table updates
20	16321	Hydro Time Series Graph Button Disabled
21	16320	Improve FFMP data loading
22	16317	WarnGen: Storm track should be visible in hydro products
23	16316	Ingest JVM memory leak
24	16307	IscMosaic throws exception during grid blanking
25	16306	AlertVizJob is throwing exceptions unmarshalling some StatusMessages
26	16291	Deleting procedures could cause CAVE to hang
27	16280	FileLocker froze CAVE
28	16277	Update capture to also check dx2
29	16276	Uncommon memory leak in TileSetRenderable

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-3

– Hard copy uncontrolled. Verify effective date prior to use. –

No.	DR	Description
30	16269	D2D: Unable to compare models using "CompStn"
31	16266	NSHARP: Unable to compare models using "CompStn"
32	16262	purge logic broken for using multiple period and deltas
33	16258	MakeHazard will not display the zone selector map for domains that cross the date line
34	16242	qpidNotify failures
35	16241	Portion of area sometimes different from A1
36	16234	Distance speed tool or WarnGen storm track can fail
37	16224	WarnGen: Times are incorrect in pathcasts in SVS products
38	16223	Problem in meteolib caused a CAVE crash
39	16222	Speed up Derived Parameter MU Cape
40	16221	Update stats archival process
41	16213	CAVE froze up while user was trying to clear out alertViz errors
42	16210	Heartbeat package changes
43	16208	Fix items with new awips2-ldm package
44	16205	Error loading GFS40 MU CAPE from Volume Browser
45	16199	Fix history handling error in iscMosaic
46	16198	Improve speed of sorting FFMP table
47	16191	File and folder creation and removal requests (associated with DCS 193 – NCEP-CAVE)
48	16190	RedbookFrame parsing unable to parse redbook buffer.
49	16189	File and folder removal requests (associated with DCS 192 - NCEP-EDEX/common)
50	16184	Hibernate not creating Indexes for DataUri and insertTimeIndex
51	16183	Implement option to disable grib database
52	16182	RedbookDecoder performance improvement
53	16181	Speed up initialization and Rendering of FFMP Resource
54	16180	WarnGen freeze due to database table access
55	16179	Normalize GFE Database
56	16178	Improve ScanTable's efficiency
57	16177	Properly implement WECache class in iscMosaic
58	16176	MPE Fieldgen Performance
59	16175	CAVE occasionally deadlocks at startup
60	16174	Improve FormatterLauncher startup time
61	16173	Add path provider for modelsounding
62	16160	Paint Error received for SPC Watches and the Local & Regional Sig Wx Advisories
63	16155	Re-instate ifpnetCDF's WECache class from A1 to reduce number of Thrift requests
64	16150	Remove AWIPS_ from textlightning distribution file
65	16146	CAVE can fail to register units when multiple instances are started at once

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013　　　　　A-4

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No.	DR	Description
66	16137	Allow YAJSW to kill the application using the shutdown timeout while in debug
67	16136	Improve ScanResource's efficiency
68	16135	VGB processing broken by improvements to loading speed
69	16134	Improve CWAT efficiency
70	16133	Bulk data retrieval of FFMP data
71	16132	FFMP Table Optimizations
72	16131	Update CoreDao.mergeAll to properly merge and not dup check every insert
73	16130	Use a Sequence Generator per plugin to remove the contention on the single sequencer generators
74	16121	NAMBufr and GFSBufr cannot be "Compared" in NSHARP display
75	16095	GFE: Unlocking issues with the hazard framing code for the cities list
76	16094	GFE: PRISM Climo for Alaska does not map properly across the dateline
77	16092	AvnFPS performance with Lots of TAF Sites
78	16091	FFMP switch to HUC5 crashes CAVE (sometimes)
79	16088	Stop D2DTimeMatcher from constantly updating FFMPResource
80	16087	Revert status message back to local machine
81	16085	Externalize number of grib decode threads
82	16083	Complete removal of hdfFileId
83	16063	Exclude maps database from AWIPS2 daily backup
84	16057	GFE: Need to change HLS surge impact statements to match new required datum
85	16046	autoDQC requires level 2 files exist
86	16036	SHEF Decoder not filter some data out
87	16005	GFE: HPC ERP precip data not being processed after Day 1
88	16003	LDM user passwordless ssh
89	15992	FFMP: BASE level DefaultFFMPconfig_basin.xml file produces all Missing values
90	15977	MPE Choose Hour cuts off seconds in the time field
91	15971	MPE Satellite Precip & Local Bias Satellite Precip Fields do not match
92	15970	MPE--MAP in DailyQC shifted by one category
93	15963	ADAM (13.1.1) MPE polygon issue
94	15962	MPE 1 hr Mode - List of Radars for Review Hourly Radar Option not correct
95	15961	KRF:MPE Display 7x7 popup Window problem related to Bad/Not Bad button
96	15960	FFMP freezes when setting the Time Duration to 24 hours
97	15957	Testbed security scans detected vulnerabilities: March 2013
98	15956	MPE−Incorrect content in DailyQC-generated netCDF file
99	15943	GFE: Text locking issues
100	15920	MPE−Setting gage value to Missing has no effect after use the Display 7x7
101	15914	If directory defined by mpe_station_list_dir is missing EDEX will crash on start
102	15909	Creating a WarnGen Text bulletin for SVS and TOR Exceed NWS Threshold
103	15893	TextWS: QC error on WarnGen county/zone names

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013

A-5

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No.	DR	Description
104	15883	GFE: Sending grids to Webfarm can fail due to permissions
105	15880	Hydro−Table HourlyPc inserted at wrong hour field
106	15876	User Administration GUI poorly formats xml files
107	15859	Daily QC Edit Precipitation Station Interface
108	15815	Problem with MPE 7x7 Editor
109	15787	'Error hatching polygon' popup for WarnGen in BOX CWA
110	15784	HydroTS: Only frame in focus should be updated when pressing ctrl-r.
111	15782	HydroTS: Data refresh is not instantaneous, as in A1
112	15767	psql missing from 64bit
113	15728	GFE: Product editor unlocking zone names when cities list contains framing code
114	15721	GFE: Service backup issues with local maps
115	15715	Grid Identification Localization File Load happening in Reverse
116	15690	WarnGen: Counties in neighboring CWA should not be hatched
117	15684	FFMP stops processing and Qpid queue backs up on certain errors
118	15677	Hydro−Time Series failed to plot in group mode
119	15662	Cross section terrain disappears if baseline too short
120	15638	WarnGen: Template changes for new urban bounds shape file*
121	15607	64-bit pygtk needed
122	15505	Text window interleaves practice and operational text
123	15398	GFE: ifpIMAGE issue when mask is used and smoothing set
124	15394	NCEP Hydro RFCFFG display not updating correctly
125	15338	MPE−Q2 Data display different than in AWIPS1
126	15251	Gribit Application Generates Grib files with Incorrect lat/lons
127	15150	DMD Radar Graphic Display does not match SCAN DMD Table display
128	15053	GFE: Error running ifpImage
129	14918	GFE: Day 8 GFS40 data does not display even when available
130	14824	Procedure 'Alter' button does not work for changing point/line for Point data
131	14587	Radar Tool Vr Shear reports values too large by a factor of two (A1 DR 21355)
132	6364	FFMP variable data sources not implemented
Replaces DR14739. Includes fixes for DR15202 and DR15689.		

Problem: FFMP table slow to respond when changing layers after inital FFMP load

When FFMP is first loaded, and the user begins to manipulate the table by changing layers, selecting counties, etc before the data is fully loaded, FFMP sometimes hangs for a short period of time (15 - 20 seconds). Once all of the data is fully loaded, FFMP is very snappy. **(DR 16417)**

Problem: ModelSounding decode order of magnitude slower

In 13.4.1 the modelsounding decoder got significantly slower. This was introduced by #1861. Initial analysis points to creating a new point data container for every sounding. This causes each hdf5 storage to be per observation, instead of all observations for the given ingested file to hdf5 file. Code should also not use the default size of the point data container, since model soundings have less 50 (may be less than 10) soundings per file. **(DR 16405)**

Problem: Improve logging for EDEX Bridge

Changed logging level, log path, and logrotate for edexBridge application in 13.4.1 and upstream.

 Required Behavior: Log edexBridge to dedicated logfile and increase log-level to DEBUG - also include logrotate for the new logfile entry. **(DR 16403)**

Problem: Unhandled redbook packet errors

AlertViz reprots an error: "Unhandled redbook packet errors" when the following sequences are followed on the test-bed.

> NCEP/hydro -> HPC|Temps & Weather -> Day 3 Heat Index Probabilities

> NCEP/Hydro -> HPC|Temps & Weather -> Day 5 Heat Index Probabilities

and other sequences.

These have been reproduced on lx1-nhda; lx5-nhda; and development machines. These errors are reported in trouble tickets: EHU 579008 & TT 577761. **(DR 16401)**

Problem: FFMP VGB's show duplicates and/or don't show up at all

1. In some cases VGB's don't show up at all.

   Sometimes that was environmentally related, as there was no hydro DB loaded when the template was created.

2. Once created, when you select a COUNTY that has VGB's multiple rows of that VGB appear (Zoom into aggregate).

3. When you change domains, multiples of the same VGB row appear and disappear.

(DR 16396)

Problem: Fix memory leak in FFMPResource

The FFMPResource is holding onto its monitor instance even after it's disposed, causing the monitor memory to remain lost and not be reclaimed by the JVM. Any other potential memory leaks needs to be fixed. **(DR 16395)**

Problem: Performance Housekeeping: Java Qpidd Broker Setup

OB13.4.1 introduced the Java qpidd broker in AWIPS. The broker was not tuned in terms of its memory use, however, and the following should be added to /awips2/qpidd/bin/qpid-server.

> JAVA_GC="-XX:+UseConcMarkSweepGC -XX:+HeapDumpOnOutOfMemoryError" \

> to:

> JAVA_GC="-XX:+UseConcMarkSweepGC -XX:+CMSIIncrementalMode -
> XX:NewSize=300m -XX:MaxSize=300m -XX:SurvivorRatio=6 -
> XX:+HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=/data/fxa/qpid" \

Without this, BCQ's qpidd broker hit OutOfMemory errors, which would cause problems in the field.

Required Behavior: Manage memory appropriately so we do not get Out Of Memory on qpidd. (**DR 16395**)

Problem: Performance Housekeeping: Remove geomag.xml distribution xml from 13.4.1

The following file was delivered in13.4.1-19 and sends all data through the NCEP geomag plugin

> ncep/gov.noaa.nws.ncep.edex.plugin.geomag/utility/edex_static/base/distribution/geomag
> .xml

Here are the contents of the file

> <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
> <requestPatterns xmlns:ns2="group">
>   <regex>^*</regex>
> </requestPatterns>

The <regex> needs to be changed, and has been re-delivered in 13.5.1 so we should remove this from 13.4.1 so it doesn't adversely affect performance

Required Behavior: Only send that data which geomag cares about to the plugin. (**DR 16389**)

Problem: Housekeeping: monitor_qpid_host.sh needs modified to work with java qpidd

monitor_qpid_host runs via cron with a2cp1apps. It is responsible for gathering historical information on how qpidd is running for root cause analysis in the event something were to occur, like too many connections. This was created through AWIPS II Tiger Team activities. It is also responsible for alarming the NCF when the number of connections gets to a certain level.

BCQ notified that it isn't working because of the way it gets the PID of qpidd. You will only see the following in the /data/fxa/qpid/monitor_qpid_host log

```
ERROR: Can't find qpidd on this host (run: pidof qpidd failed).
```

Required Behavior: If monitor_qpid_host finds a qpidd process running, then it must be able to capture required information and logs appropriately to /data/fxa/qpid. **(DR 16380)**

Problem: Change edex-request route receive from byte[] to InputStream

Memory profiling showed a GFE save operation for OAX generating 7G+ of memory. Most of this is not useful and gets immediately thrown away. This is being caused by the auto conversion of a Stream to a byte[] by camel. Update RemoteRequestRouteWrapper to take an InputStream instead of a byte[]. **(DR 16375)**

Problem: AlertViz: UFStatus with message=null not handled properly

AlertViz does not properly handle UFStatus with message = null which is the case when a NullPointerException occurs and the message field is set to e.getLocalizedException(). **(DR 16374)**

Problem: GFE: NullPointerException thrown if first row in maps database is null

ZoneDbResource.fitToCWA throws a NullPointerException if the first row returned from a maps database query is null. This may have become more common with the new PostgreSQL/PostGIS in 13.4.1. The GHG zone map did not display on TBDW due to this problem combined with the issue in Redmine #2135.

Required Behavior: Null pointer exception must not be thrown even if first row returned from maps database query is null. **(DR 16373)**

Problem: FFMP is falling behind with three radars in 13.4.1

Issue #1919 caused a dramatic increase in the amount of data that ffmp is accessing. This DR will reverse the slow part of that change. **(DR 16372)**

Problem: GFE fails with multiple concurrent users

GFE fails while launching multiple GFE instances in a row. GFE will generate multiple exceptions.

```
ERROR 2013-06-19 17:15:59,182 [qtp13183166-113] LockManager: EDEX - Error
getting lock tables for [PoP_SFC:GID_GRID__Fcst_00000000_0000]

com.raytheon.uf.edex.database.DataAccessLayerException: Unable to look up
locks for parmIds [PoP_SFC:GID_GRID__Fcst_00000000_0000]

at
com.raytheon.edex.plugin.gfe.db.dao.GFELockDao.getLocks(GFELockDao.java:129)
```

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013　　　　　　　A-9

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at
com.raytheon.edex.plugin.gfe.server.lock.LockManager.getLockTables(LockManage
r.java:140)

at
com.raytheon.edex.plugin.gfe.server.handler.GetLockTablesHandler.handleReques
t(GetLockTablesHandler.java:50)

at
com.raytheon.edex.plugin.gfe.server.handler.GetLockTablesHandler.handleReques
t(GetLockTablesHandler.java:1)

at
com.raytheon.uf.edex.auth.RemoteRequestServer.handleThriftRequest(RemoteReque
stServer.java:133)

at
com.raytheon.uf.edex.auth.RemoteRequestRouteWrapper.executeThrift(RemoteReque
stRouteWrapper.java:68)

at sun.reflect.GeneratedMethodAccessor111.invoke(Unknown Source)

at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.
java:25)

at java.lang.reflect.Method.invoke(Method.java:597)

at org.apache.camel.component.bean.MethodInfo.invoke(MethodInfo.java:391)

at
org.apache.camel.component.bean.MethodInfo$1.doProceed(MethodInfo.java:278)

at org.apache.camel.component.bean.MethodInfo$1.proceed(MethodInfo.java:251)

at
org.apache.camel.component.bean.BeanProcessor.process(BeanProcessor.java:161)

at
org.apache.camel.util.AsyncProcessorHelper.process(AsyncProcessorHelper.java:
73)

at
org.apache.camel.processor.DelegateAsyncProcessor.processNext(DelegateAsyncPr
ocessor.java:99)

at
org.apache.camel.processor.DelegateAsyncProcessor.process(DelegateAsyncProces
sor.java:90)

at
org.apache.camel.processor.interceptor.BacklogTracerInterceptor.process(Backl
ogTracerInterceptor.java:84)

at
org.apache.camel.util.AsyncProcessorHelper.process(AsyncProcessorHelper.java:
73)

```
at
org.apache.camel.processor.DelegateAsyncProcessor.processNext(DelegateAsyncPr
ocessor.java:99)
```

(DR 16369)

Problem: WarnGen: Don't generate pathcast data when not using pathcast

In WarnGen, one of the things taking extra time is the calculation of the pathcast and related data. This is rarely used and uses up valuable milliseconds of the time to get a product created. The code needs to be improved so that the pathcast data is only calculated if the user selected to use a pathcast. **(DR 16357)**

Problem: Update capture to get data on NAS performance

The NAS has been shown to sometimes be the cause of performance problems. Update capture to do a timing test on listing the user's home directory to check NAS performance. **(DR 16335)**

Problem: GFE: ifpBreakAllLocks not working

ifpBreakAllLocks is not working in OB13.4.1. It is being addressed by Redmine DR #2099.\

Required Behavior: ifpBreakAllLocks must break the locks specified by the arguments given to it. **(DR 16334)**

Problem: Improve efficiency of changing layers in FFMP

Improve the efficiency of changing layers in FFMP by identifying areas that can be improved and then improving them. **(DR 16331)**

Problem: GFE: Log active table updates

This housekeeping DR is to add logging for active table updates in GFE.

6/18/2013: A request was made to add in additional logging to PlotSPCWatches as well based on investigation of TT 575343

Required Behavior: Log active table updates in GFE. **(DR 16324)**

Problem: Hydro Time Series Graph Button Disabled

When opening Hydro TS by right clicking on a gage in the Hydro Perspective the TS Control dialog can open with the Graph button disabled. **(DR 16321)**

Problem: Improve FFMP data loading

The code for loading the data in FFMP initially is convoluted and very difficult to maintain and improve. Refactor it to some clarity and while in there, speed it up by making optimizations. **(DR 16320)**

Problem: WarnGen: Storm track should be visible in hydro products

In A1, the site had the capability to include storm track information (i.e., At ...FLASH FLOODING FROM A   THUNDERSTORM PRODUCING HEAVY RAIN 3 MILES NORTH OF LOCHBUIE...OR 25 MILES SOUTH OF GREELY. THIS STORM WAS MOVING NORTH AT 5 MPH).

Right now, by having the following line in template (e.g., flashFloodWarning.xml), storm movement direction and speed are available in initial hydro product (e.g., FFW) and storm track is visible in D2D:

 <trackEnabled>true</trackEnabled>

However, storm track is not visible in the followup (e.g., FFS) without adding TML line in initial warning, which is not needed in FFW. It was confirmed that WarnGen Java code need to be updated to meet this requirement.

Required Behavior: Storm Track should be visible for Hydro products in AWIPS II as in AWIPS I when configuring the templates properly. **(DR 16317)**

Problem: Ingest JVM memory leak

A memory leak has been discovered in the ingest JVM. This may have contributed to the issue with the slow processing and building queues reported recently at HUN (TT 573444). **(DR 16316)**

Problem: IscMosaic throws exception during grid blanking

While testing a development build of 13.4.1, the following exception was noted in the iscMosaic logs:

```
ERROR  2013-05-28 15:29:48,492 [23791:1289485200] iscMosaic.py:  Failure to
process grid blanking Parm= Wx_SFC  Time= (20130530_1600,20130530_1800)
Traceback (most recent call last):

  File "/awips2/edex/data/utility/edex_static/base/gfe/isc/iscMosaic.py",
line 601, in __processParm

    self.__processBlankTime(mGrid, tr)

  File "/awips2/edex/data/utility/edex_static/base/gfe/isc/iscMosaic.py",
line 1273, in __processBlankTime

    if self.__siteInDbGrid(m[0]):
```

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-12

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```
  File "/awips2/edex/data/utility/edex_static/base/gfe/isc/iscMosaic.py",
line 1292, in __siteInDbGrid

    history = self.__dbwe.getItem(iscUtil.toJavaTimeRange(tr)).getHistory()
```

RuntimeError: com.raytheon.uf.common.dataplugin.gfe.exception.GfeException:
Error getting grid data for Wx_SFC:AKQ_GRID__ISC_00000000_0000 at time (May
30 13 16:00:00 GMT, May 30 13 18:00:00 GMT)

Error retrieving WEATHER data from HDF5

Failure in retrieving grid data from GridDatabase

        at
com.raytheon.edex.plugin.gfe.smartinit.IFPWE.getItem(IFPWE.java:194)

        at jep.Jep.eval(Native Method)

        at jep.Jep.eval(Jep.java:284)

        at
com.raytheon.uf.common.python.PythonScript.internalExecute(PythonScript.java:
243)

        at
com.raytheon.uf.common.python.PythonScript.execute(PythonScript.java:291)

        at
com.raytheon.uf.common.python.PythonScript.execute(PythonScript.java:271)

This python exception corresponded to the following EDEX-request exception:

WARN 2013-05-28 15:29:48,491 [iscdatarec-pool-3-thread-1] IFPGridDatabase:
EDEX - Error retrieving WEATHER data from HDF5

com.raytheon.uf.common.dataplugin.gfe.exception.GfeException: Unable to get
data from HDF5 for ParmID: Wx_SFC:AKQ_GRID__ISC_00000000_0000 TimeRange:
[(May 30 13 16:00:00 GMT, May 30 13 18:00:00 GMT)]

        at
com.raytheon.edex.plugin.gfe.server.database.GridDatabase.retrieveDiscreteFro
mHDF5(GridDatabase.java:299)

        at
com.raytheon.edex.plugin.gfe.server.database.IFPGridDatabase.getGridData(IFPG
ridDatabase.java:1210)

        at
com.raytheon.edex.plugin.gfe.server.database.IFPGridDatabase.getGridData(IFPG
ridDatabase.java:1259)

        at
com.raytheon.edex.plugin.gfe.server.GridParm.getGridData(GridParm.java:319)

        at
com.raytheon.edex.plugin.gfe.server.GridParmManager.getGridData(GridParmManag
er.java:377)

        at
com.raytheon.edex.plugin.gfe.smartinit.IFPWE.getItem(IFPWE.java:184)

```
        at jep.Jep.eval(Native Method)

        at jep.Jep.eval(Jep.java:284)

        at
com.raytheon.uf.common.python.PythonScript.internalExecute(PythonScript.java:
243)

        at
com.raytheon.uf.common.python.PythonScript.execute(PythonScript.java:291)

        ... 19 more

All investigation into this error, shows that it pre-dates the performance
changes made to IscMosaic for 13.4.
```
(DR 16307)

Problem: AlertVizJob is throwing exceptions unmarshalling some StatusMessages

While investigation the alertViz logs from OAX, some exceptions that are only logged in the alertviz_*_admin.logs was found. It indicated some StatusMessage containing an null (0x0) character. **(DR 16306)**

Problem: Deleting procedures could cause CAVE to hang

In D2D, if a user is editing their procedures and needs to delete an already created procedure, this process can lead to CAVE hanging. It was noticed that users with older caveData folders did not experience this until they were deleted and recreated. Deleting procedures is not something that would be done when a site is experiencing weather and would be more likely to be performed during benign weather as a forecaster was working to update and edit their procedures.

Required Behavior: When deleting procedures, CAVE should be restored to normal functionality following deletion.**(DR 16291)**

Problem: FileLocker froze CAVE

OAX had a cave freeze where a lock was stuck in the ACQUIRING state. The thread that had tried to ACQUIRE said lock was no longer running. Code has no way to remove the lock or timeout an ACQUIRING lock. **(DR 16280)**

Problem: Update capture to also check dx2

Since in 13.4.1, pypies was moved to dx2, capture needs the server stats of dx2 (i.e., top and anything else that would be captured from the servers). Otherwise there will be no way of knowing how hard pypies is getting hit at the time of a capture. **(DR 16277)**

Problem: Uncommon memory leak in TileSetRenderable

Related to TT 570634, an out-of-memory error occurred in CAVE. An analysis of the heap dump shows that most of the memory is in a large number of BufferTileImageCreators. Meanwhile there are only a small number of GriddedImageDisplay2 objects, indicating that the BufferTileImageCreators are referenced by their inner class, BufferColorMapRetrievalCallback, which are referenced by the images created against these. These images and the callback are kept in the GLCMTextureData.texMap. Further analysis shows that the TileSetRenderable.imageMap is not synchronized in any way, so calls to put() can collide and result in references to those images being lost except in GLCMTextureData.texMap, hence the leak. **(DR 16276)**

Problem: D2D: Unable to compare models using "CompStn"

In NSHARP, the sites are currently unable (in OB 13.4.1) to compare two models for a given point using the "CompStn" button as we were able to in prior releases.

There are two fixes required: NSHARP (DR 16266) and D2D (this DR). They cannot be combined since they represent different organizations/components.

Required Behavior: User should be able to compare two models at a given point. **(DR 16269)**

Problem: NSHARP: Unable to compare models using "CompStn"

In NSHARP, the users are unable (in OB 13.4.1) to compare two models for a given point using the "CompStn" button as we were able to in prior releases.

There are two fixes required: NSHARP (this DR) and D2D (DR 16269). They cannot be combined since they represent different organizations/components.

Required Behavior: User should be able to compare two models at a given point. **(DR 16266)**

Problem: purge logic broken for using multiple period and deltas

In A1, purge rules were designed to piggy back on the previous if multiple var,period,delta,round groups are supplied.

For example:

82 | | | 2- | 34 | 38,,=3:00 | 42,,=6:00 | 50,,=24:00,+12:00

Is the Metar purge key for A1. This would keep 34 versions of the product at hourly intervals. Then 4 more at 3 hour intervals. Then 4 more at 6 hour intervals and finally 8 more at 24 hour intervals at exactly 1200z. So you would have 52 files in the directory, but could go back a whole extra week.

A2 purge code seems to allow the time periods to overlap and takes the <versionsToKeep> literally. So, when it has the following:

<versionsToKeep>38</versionsToKeep>

=00-03:00:00

This will keep 38 versions at 3 hour intervals instead of only 4 extra over the base 34 at 3 hour intervals and it will start at the first hour to count every three instead of the last hour.

This will keep a lot more data than is kept in A1 and could affect performance.

Required Behavior: Have purge delta/round act the same as in A1. **(DR 16262)**

Problem: MakeHazard will not display the zone selector map for domains that cross the date line

Separated from #1811, this ticket addresses the errors being thrown when the GFE domain crosses the date line. **(DR 16258)**

Problem: qpidNotify failures

After the 13.4.1 install with the QPID software update, the qpidNotify script is no longer functioning, which means products sent over MHS are not being ingested by EDEX. This affects inter-site messages, WAN backup, product acknowledgement, etc.

Required Behavior: qpidNotify should function, which allows for ingest of MHS products. **(DR 16242)**

Problem: WarnGen: Portion of area sometimes different from A1

Although greatly improved from previous to DR 16098, there are still instances where the portion of area is incorrect. Two examples from Boulder are as follows.

In an example, the area produced was "CENTRAL BOULDER COUNTY". This is a very repeatable problem; polygons with a corner in the middle of Boulder county that go toward the southeast either as a rectangle over the southeast quarter of the county or as a more pie-shaped slice from the center toward the southeast often produce this wording. In many of these cases south, or southeast or perhaps even "Boulder county" might be acceptable, but central doesn't seem right.

Required Behavior: Portion of area should better match A1. **(DR 16241)**

Problem: Distance speed tool or WarnGen storm track can fail

If the distance speed is manipulated in a certain way and the frame count changes, there will be an AlertViz error and the resource will be disabled.

Steps to reproduce

1. Start CAVE/D2D/WarnGen (OR Distance-Speed tool)

2. Create a Track.

3. Move the centroid (on the last frame.)

4. Step back a frame.

5. Move the centroid (on the second-to-last-frame.)

6. Step back one more frame. Then step forward.

7. Halve the number of frames.

8. Move the centroid again.

Required Behavior: Storm track should work without throwing errors. **(DR 16234)**

Problem: WarnGen: Times are incorrect in pathcasts in SVS products

Times are incorrect in pathcasts in SVS products. Locations that are behind the storm centroid but still in the polygon are included with past times. Times are also sometimes calculated wrong (with past times) in the followup SVS products. The times appear to be correct in the original SVR products.

Required Behavior: Times should calculate correctly. **(DR 16224)**

Problem: Problem in meteolib caused a CAVE crash

Omaha had a CAVE crash loading a procedure in D2D on LX2. Bundle called cb.xml, but the procedure doesn't have a name they said. Procedure loads GFS40 Pacific Region data.

The crash was not repeatable. There was a problem in meteolib with streamlines. This will probably show up intermittently until fixed.

Required Behavior: No crash should occur. **(DR 16223)**

Problem: Speed up Derived Parameter MU Cape

MU Cape is currently using CAPE on feet AGL levels in addition to the meters AGL levels. Change muCape.xml so that it explicitly uses only the meter based levels and it will go faster. **(DR 16222)**

Problem: Update stats archival process

Stats archival process needs to do the following:

1. Be run as part of normal aggregate stat creation, not as part of purge.

2. Have its own purge configuration for database aggregate data, archived aggregates, and archived stats.

3. Save aggregates and raw stats into CONFIGURED level directories based on month and day, with a file per hour or similar

4. Previous day should be compressed. **(DR 16221)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-17

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Problem: CAVE froze up while user was trying to clear out alertViz errors

CAVE froze up for about two minutes while the user was trying to clear out AlertViz errors they had been getting regarding "unable to create property map". User stated this happened right around 00z.

Required Behavior: Cave shouldn't hang. **(DR 16213)**

Problem: Heartbeat package changes

- Add ldm to a2cp1apps

- Remove ldm from a2dx2apps (except for remote CP sites)

- Move pypies from a2dx1apps to a2dx2apps

Required Behavior: LDM should be controlled by cpsbn1 package, LDM should no longer be run on dx2 (except at remote CP sites) and with dx2 no longer running anything at most sites, move pypies over to dx2. **(DR 16210)**

Problem: Fix items with new awips2-ldm package

Noted some problems with new awips2-ldm package:

1. Syntax error in preinstall script (scp in for loop has wrong path)

2. Update to the latest ldm package 6.11.5

3. Add ldmcp, ldm.log and possible start/stop_ldm files to package for install. **(DR 16208)**

Problem: Error loading GFS40 MU CAPE from Volume Browser

Selections from the Volume Browser.

> Source = GFS40
>
> Field = MU CAPE
>
> Plane = 0-6 km AGL (Layer)

The user right-clicked on the product and selected the choice to load as Contours + Image ("Load as GFS40...")

Frame count was set to 12, which is far less than the complete GFS40 loop. After about 2 minutes, an AlertViz popup appeared with errors like "Error executing derived parameter request".

The complete error indicates Python ran out of memory. Capture was run on lx1-bcq after the errors began to appear. **(DR 16205)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013　　　　A-18

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Problem: Fix history handling error in iscMosaic

The fixes made in Redmine #1941 caused a regression in iscMosaic. The script throws the following exception:

```
ERROR  2013-05-07 23:39:57,486 [30555:-2069484656] iscMosaic.py:  Failure to
process grid in file [ /awipscm/mhsTest/mhs/received/DEV12-000023.033.OAX ]
Parm= T_SFC  Time= (20130508_0900,20130508_1000) Traceback (most recent call
last):

  File "/awips2-32/edex/data/utility/edex_static/base/gfe/isc/iscMosaic.py",
line 577, in __processParm

    mGrid, tr, inFillV)

  File "/awips2-32/edex/data/utility/edex_static/base/gfe/isc/iscMosaic.py",
line 643, in __processIncomingGrid

    gotGrid = self.__getDbGrid(m[0])

  File "/awips2-32/edex/data/utility/edex_static/base/gfe/isc/iscMosaic.py",
line 736, in __getDbGrid

    tempHistory.append(hist.getCodedString())

AttributeError: 'str' object has no attribute 'getCodedString'  (DR 16199)
```

Problem: Improve speed of sorting FFMP table

Sorting the FFMP table is not as efficient as it could be, and this effect is worsened by the sheer number of rows to sort. This is also slowing down the initial startup time of the table data to appear. Improve the efficiency of the sorting code. **(DR 16198)**

Problem: File and folder creation and removal requests (associated with DCS 193 - NCEP-CAVE)

Housekeeping: File and folder creation and removal requests -- associated with DCS 193 (NCEP updates to OB13.4.1, for CAVE):

CREATE the following 16 (empty) folders, as of OB13.4.1:

> cave/build/static/common/cave/etc/ncep/pgen
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/bufrmosETA
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/bufrmosGFS
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/bufrmosLAMP
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/bufrmosMRF
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/bufrua
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/modelsounding
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/ncairep
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/ncpafm
>
> cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/ncpirep

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-19

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cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/ncscd

cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/ncuair

cave/build/static/common/cave/etc/ncep/PlotModels/ConditionalFilters/sfcobs

cave/build/static/common/cave/etc/ncep/ResourceDefns/UPPER_AIR/DROP

cave/build/static/common/cave/etc/ncep/ResourceDefns/UPPER_AIR/TAMDAR

cave/build/static/common/cave/etc/ncep/SPFs

REMOVE the following files and folders, as of OB13.4.1

(Note: Any path leaf below without an extension [e.g., .xml or .java] is a folder, and implies also removing any/all files or subfolders it contains)

cave/build/static/common/cave/etc/colormaps/solar

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/EASTNMM-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ETA212-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ETA218-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/FNMOCWAVE-marine.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS212-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RAP-anl_loops.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RAP-precip.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC130-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC236-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-anl_loops.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-basic_wx.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-exp_marine.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-medr.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-misc.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-no_col-fill.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-precip.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-qpf.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-streamlines.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-surface.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC40-tropical.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-anl_loops.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-basic_wx.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-exp_marine.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-medr.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-misc.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-no_col-fill.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-precip.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-qpf.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-streamlines.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-surface.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RUC-tropical.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/SREF212-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WESTNMM-standard.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosGFS/12hrpop.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosGFS/6hrpop.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosGFS/fosb.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosGFS/misc.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosGFS/wind.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosNGM

cave/build/static/common/cave/etc/ncep/PlotModels/PlotParameters/mos_clouds_gfs_s2s.txt

cave/build/static/common/cave/etc/ncep/PredefinedAreas/LOCAL

cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/EASTNMM

cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/ETA212

cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/ETA218

cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/GFS212

cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/RUC130

cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/RUC236

cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/SREF212

cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/WESTNMM

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSMOS/12hrpop.attr

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSMOS/6hrpop.attr

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013　　　A-21

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cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSMOS/fosb.attr

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSMOS/misc.attr

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSMOS/wind.attr

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSXMOS/max_mm_1.attr

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSXMOS/max_mm_2.attr

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSXMOS/min_mm_1.attr

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSXMOS/min_mm_2.attr

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSXMOS/simple.attr

 [- and -]

ncep/gov.noaa.nws.ncep.edex.common/src/gov/noaa/nws/ncep/metparameters/dbquery/util

ncep/gov.noaa.nws.ncep.ui.nsharp/BigNsharp/Sndglib/basics_old.c

ncep/gov.noaa.nws.ncep.ui.nsharp/BigNsharp/Sndglib/skparams_12july05.c

ncep/gov.noaa.nws.ncep.viz.common/src/gov/noaa/nws/ncep/viz/common/AbstractNcEditor.java

ncep/gov.noaa.nws.ncep.viz.common/src/gov/noaa/nws/ncep/viz/common/EditorManager.java

ncep/gov.noaa.nws.ncep.viz.resources/src/gov/noaa/nws/ncep/viz/resources/manager/PredefinedAreasMngr
.java

ncep/gov.noaa.nws.ncep.viz.resources/src/gov/noaa/nws/ncep/viz/resources/manager/RbdBundle.java

ncep/gov.noaa.nws.ncep.viz.resources/src/gov/noaa/nws/ncep/viz/resources/manager/.ResourceDefnsMngr.
java.swp (if exists)

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/localization/styleRules

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/actions/EnableDisabl
eLatLonAction.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/actions/HalphaImage
Action.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/actions/LatLonInterv
alCapability.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/actions/SDOImageA
ction.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/actions/SOHOImage
Action.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/actions/STEREOIma
geAction.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/actions/SXIImageAc
tion.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/display/DefaultNon
MapDisplay.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/SolarImageBundleL
oader.java

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/src/gov/noaa/nws/ncep/viz/rsc/solarimage/util/SolarImagePrefe
rences.java

ncep/gov.noaa.nws.ncep.viz.ui.display/src/gov/noaa/nws/ncep/viz/ui/display/AbstractNCModalMapTool.java

ncep/gov.noaa.nws.ncep.viz.ui.display/src/gov/noaa/nws/ncep/viz/ui/display/DisplayNameManager.java

ncep/gov.noaa.nws.ncep.viz.ui.display/src/gov/noaa/nws/ncep/viz/ui/display/IGridGeometryProvider.java

ncep/gov.noaa.nws.ncep.viz.ui.display/src/gov/noaa/nws/ncep/viz/ui/display/NCDisplayPane.java

ncep/gov.noaa.nws.ncep.viz.ui.display/src/gov/noaa/nws/ncep/viz/ui/display/NCMapEditor.java

ncep/gov.noaa.nws.ncep.viz.ui.display/src/gov/noaa/nws/ncep/viz/ui/display/NmapUiUtils.java

ncep/gov.noaa.nws.ncep.viz.ui.display/src/gov/noaa/nws/ncep/viz/ui/display/PaneID.java

ncep/gov.noaa.nws.ncep.viz.ui.display/src/gov/noaa/nws/ncep/viz/ui/display/PredefinedArea.java

ncep/gov.noaa.nws.ncep.viz.ui.perspectives/src/gov/noaa/nws/ncep/viz/ui/perspectives/menus/AreasFromDisplaysMenu.java

ncep/gov.noaa.nws.ncep.viz.ui.perspectives/src/gov/noaa/nws/ncep/viz/ui/perspectives/menus/AreasFromResourcesMenu.java

(DR 16191)

Problem: RedbookFrame parsing unable to parse redbook buffer

The RedbookFrame parsing is failing to detect the end of the byte buffer. **(DR 16190)**

Problem: File and folder removal requests (associated with DCS 192 - NCEP-EDEX/common)

Housekeeping: File and folder removal requests -- associated with DCS 192 (NCEP updates to OB13.4.1, for EDEX/common):

REMOVE the following (now obsolete) 4 files, as of the OB13.4.1 stream:

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/EASTNMM.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/gefs.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/NGMMOS.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WE.STNMM.xml

(DR 16189)

Problem: Hibernate not creating Indexes for DataUri and insertTimeIndex

Hibernate is not creating Indexes for the attributes dataURI and insertTimeIndex for classes that extend PluginDataObject. **(DR 16184)**

Problem: **Implement option to disable grib database**

As the first step in removing the grib database table, there is a need for a runtime option to disable it so developers can test software against an edex with grib disabled. **(DR 16183)**

Problem: RedbookDecoder performance improvement

Improve RedbookDecoder decode and parsing time. **(DR 16182)**

Problem: Speed up initialization and Rendering of FFMP Resource

Analyze and remove any unnecessary functionality to speed up the load time for FFMP Resource. **(DR 16181)**

Problem: WarnGen freeze due to database table access

Auto Vacuum has been shown to not be aggressive enough in the field to keep the database functioning well. Increase autovacuum settings to run more often, have a lower threshold, have a lower sleep interval, and have a higher cost before sleeping.**(DR 16180)**

Problem: Normalize GFE Database

The GFE database is not setup in a normalized form. Fields that can be whole tables and reused are instead made into long strings and stored. Normalize the gfe and gfe_lock table to use a parm id table which in turn references a database id table. **(DR 16179)**

Problem: Improve ScanTable's efficiency

The ScanTable is inefficient and can cause jerkiness in the display when looping. Specifically, ScanTable.sortTableData(int) takes around 100ms to complete and is too slow for an action on the UI thread. The following items need to be investigated:

The table is completely redrawn every time the frame time is changed, even if the data is unchanged and Link To Frame is unchecked.

…Inside sortTableData(int):

setColumnImages() is slow and regenerates column headers every time

createTableItems() is slow and calls showHideTableColumns()

showHideTableColumns() is slow and is called at least twice

checkBlink() is slow even if there is no blink

 (DR 16178)

Problem: Properly implement WECache class in iscMosaic

The WECache was not properly ported/implemented in the A2 port of iscMosaic.All data requests go directly to the database/pypies every time. So each retrieval of an existing grid is done one-by-one on demand. And each new grid written is done one-by-one on demand. As with ifpnetCDF, the user expects substantial performance gains can be made by pre-fetching grids/histories from the system in batches and writing the grids back to the database in batches. **(DR 16177)**

Problem: MPE Fieldgen Performance

A2 MPE Fieldgen lags behind A1 MPE Fieldgen in terms of time to run. **(DR 16176)**

Problem: CAVE occasionally deadlocks at startup

CAVE occasionally hangs at start up with only the splash screen displayed. The issue seems to be related to notifications arriving prior to SerializableManager completing initialization. **(DR 16175)**

Problem: Improve FormatterLauncher startup time

The first time in GFE that you open the FormatterLauncher, there is a slight delay. This is due to the python initializing the list of menu items based on the site's configured formatters. Instead initialize this python in the background at startup so that there is no delay upon first opening the formatter. **(DR 16174)**

Problem: Add path provider for modelsounding

Model Sounding plugin stores all soundings for all models, all forecast hours to the same hdf5 file. This should be broken up by model at a minimum and forecast hour also (requires specific path provider class). Upgrade script will need to be provided. Script can simply copy the data to all possible files referenced by the new pathing. **(DR 16173)**

Problem: Paint Error received for SPC Watches and the Local & Regional Sig Wx Advisories

With 0.5 Reflectivity displayed in the main pane (set as the Time-Matched product).the Local & Regional Warnings product was displayed on top of the radar data. After letting the product update with a couple volume scans, the pane was swapped into a small pane and then back into the main pane. The Local & Regional Sig Wx Advisories (SPS) product became disabled...and the following error resulted. Getting this issue to repeat each time is proving to be difficult. This may have to be tested several times, in various ways, ideally during a severe weather event.

```
Paint error: null:: The resource has been
disabled.com.raytheon.uf.viz.core.exception.VizException: Paint error: null::
The resource
has been disabled.
```

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-25

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```
at
com.raytheon.uf.viz.core.maps.display.MapRenderableDisplay.paint(MapRenderabl
eDisplay.java:178)
at
com.raytheon.uf.viz.d2d.core.map.D2DMapRenderableDisplay.paint(D2DMapRenderab
leDisplay.java:231)
at
com.raytheon.viz.ui.panes.VizDisplayPane.glDrawInternal(VizDisplayPane.java:5
15)
at com.raytheon.viz.ui.panes.VizDisplayPane.draw(VizDisplayPane.java:469)
at
com.raytheon.viz.ui.panes.DrawCoordinatedPane.draw(DrawCoordinatedPane.java:1
82)
at
com.raytheon.viz.ui.panes.DrawCoordinatorJob$1.run(DrawCoordinatorJob.java:22
9)
at
org.eclipse.ui.internal.UILockListener.doPendingWork(UILockListener.java:164)
at org.eclipse.ui.internal.UISynchronizer$3.run(UISynchronizer.java:158)
at org.eclipse.swt.widgets.RunnableLock.run(RunnableLock.java:35)
at
org.eclipse.swt.widgets.Synchronizer.runAsyncMessages(Synchronizer.java:134)
at org.eclipse.swt.widgets.Display.runAsyncMessages(Display.java:3515)
at org.eclipse.swt.widgets.Display.readAndDispatch(Display.java:3164)
at org.eclipse.ui.internal.Workbench.runEventLoop(Workbench.java:2640)
at org.eclipse.ui.internal.Workbench.runUI(Workbench.java:2604)
at org.eclipse.ui.internal.Workbench.access$4(Workbench.java:2438)
at org.eclipse.ui.internal.Workbench$7.run(Workbench.java:671)
at
org.eclipse.core.databinding.observable.Realm.runWithDefault(Realm.java:332)
at
org.eclipse.ui.internal.Workbench.createAndRunWorkbench(Workbench.java:664)
at org.eclipse.ui.PlatformUI.createAndRunWorkbench(PlatformUI.java:149)
at
com.raytheon.viz.ui.personalities.awips.AbstractCAVEComponent.startComponent(
AbstractCAVEComponent.java:220)
at
com.raytheon.uf.viz.application.VizApplication.start(VizApplication.java:81)
at
org.eclipse.equinox.internal.app.EclipseAppHandle.run(EclipseAppHandle.java:1
96)
at
org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.runApplication(E
clipseAppLauncher.java:110)
at
org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.start(EclipseApp
Launcher.java:79)
at
org.eclipse.core.runtime.adaptor.EclipseStarter.run(EclipseStarter.java:369)
```
With the paint errors, the SPC/SPS data is cleared from the pane; other data will remain loaded.

Required Behavior: SPC/SPS data should automatically update in panes without error and without clearing, regardless of swapping history, etc. Of course, other data should also remain loaded, which it is doing in this case. **(DR 16160)**

Problem: Re-instate ifpnetCDF's WECache class from A1 to reduce number of Thrift requests

In A1 ifpnetCDF had an internal class named WECache that was used to prefetch the grids and grid histories of a single weather element before storing to the CDF file. The A2 port of ifpnetCDF disabled this prefetching behavior and retrieved each grid and grid history on demand as it was being written to the CDF file. Reinstating the A1 behavior of WECache will drastically improve run times of ifpnetCDF by not making all the extra data retrieval requests. **(DR 16155)**

Problem: Remove AWIPS_ from textlightning distribution file

After textlightning plugin was modified in 13.3.1 DCS 152, some sites started having their edex logs fill up with errors parsing textlightning data, and /awips2 was filling up. Traced this to LDAD data with AWIPS_ in the file name being sent to textlightning for decoding, which was not the intent.

Required Behavior: Only textlightning data should be parsed through textlightning plugin, and AWIPS_ filename data, which at HQ sites was coming in over LDAD, shouldn't be. **(DR 16150)**

Problem: CAVE can fail to register units when multiple instances are started at once

If multiple CAVEs are started by the same user at once, there is a chance they will not correctly initialize custom units or abbreviations (such as "kts" for knots). This can cause products that use custom units to fail to load.

This is related to DR 15882. In this case, Spring XML files are not extracted correctly. Like the other DR, this appears to happen rarely.

Steps to reproduce:

1. Start multiple CAVEs on the same workstation at once.

2. In one CAVE, start Volume Browser.

3. Select any model, Wind, and any plane.

4. Expected result: The inventory pane shows the inventory. There are no alertviz errors.

Also see Redmine ticket #1754.

Required Behavior: CAVE should correctly initialize itself when started. **(DR 16146)**

Problem: Allow YAJSW to kill the application using the shutdown timeout while in debug

The Yet Another Java Service Wrapper (YAJSW) library ignores the configured shutdown timeout when running in debug mode. If the wrapper is signaled to shutdown prior to starting EDEX, the shutdown notification is lost, and EDEX continues processing without being shut down. **(DR 16137)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-27

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Problem: Improve ScanResource's efficiency

The ScanResource and related classes do not consistently meet the performance targets. Improve their efficiency so they can more consistently reach target timing goals. **(DR 16136)**

Problem: VGB processing broken by improvements to loading speed

VGB processing for aggregate records got broken somehow with the changes that the site made in recent check ins. **(DR 16135)**

Problem: Improve CWAT efficiency

The CWATResource and CWATLocalThreatResource don't implement getDataTimes(), which means they fall back to the inherited method even though no times are added to the inherited dataTimes list. This causes every time match to re-request the CWAT PDOs, and therefore these same PDOs are requested twice every time the CWATResource is created. This inefficiency needs to be fixed. **(DR 16134)**

Problem: Bulk data retrieval of FFMP data

In FFMP combine requests to pypies to improve performance. **(DR 16133)**

Problem: FFMP Table Optimizations

Optimize the FFMP table color calculations and FFMPTableDataLoader class. **(DR 16132)**

Problem: Update CoreDao.mergeAll to properly merge and not dup check every insert

CoreDao.mergeAll needs to be updated to incorporate the logic of PointDataPluginDao with the following caveats. The Bulk insert to individual should specifically trap ConstraintViolationException and then switch individually, on the individual.

1. Do not do a duplicate check lookup on every insert

2. Specifically catch ConstraintViolation and switch from a batch commit to an individual commit. If an individual commit fails with a ConstraintViolation we should check for overWrite allowed. If overWrite allowed, it should issue an update instead of a save command. No reason to do a specific duplicate check ever. **(DR 16131)**

Problem: Use a Sequence Generator per plugin to remove the contention on the single sequencer generators

Change the PluginDataObject concrete classes to use separate sequencer generators. **(DR 16130)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-28

– Hard copy uncontrolled. Verify effective date prior to use. –

Problem: NAMBufr and GFSBufr cannot be "Compared" in NSHARP display

When loading NAMBufr and GFSBufr products from the volume browser, the user is unable to display and compare both in NSHARP at the same time (as an overlay). Products such as upper air soundings and model soundings are able to be compared in this manner.

Also, once these products are able to be compared, the wind barbs should function as described in DR 15619.

Required Behavior: The user should be able to load both products into NSHARP and click the "Compare" button to have both soundings displayed. Also, when both are displayed, both sets of wind barbs should display. **(DR 16121)**

Problem: GFE: Unlocking issues with the hazard framing code for the cities list

There was an issue with unlocking the framing code for the cities list when only one line of zone name text is present. To unlock the framing code for the cities list, the user had to remove the cities list one character at a time. The cities list becomes unlocked after the user removed one character from the framing code, and then the cities list becomes locked again. The user had to wait for 1 minute (60 seconds) for the unlocking the next character of the cities list.

Required Behavior: The cities list should be unlocking all the time. **(DR 16095)**

Problem: GFE: PRISM Climo for Alaska does not map properly across the dateline

1. PRISM Climo for the CONUS is baselined in AWIPS II. The NETCDFDIRS entry in serverConfig.py point to the data in the /awips2/edex/data/gfe/climo/PRISM directory. However, the Alaska version of the PRISM data does not exist on AWIPS II, and the NETCDFDIRS entry is empty. The PRISM data is required to run a few very important tools for use in the GFE in Alaska in the WFOs and RFCs. With the absence of Alaska PRISM data in the GFE, these tools cannot be utilized.

2. The second issue is that even after successfully getting the Alaska PRISM data to be recognized by the system and made available to the GFE, all the data fields are 0 value.

Analysis of the file confirmed the suspected dateline issue.

Required Behavior: The data should map correctly across the dateline. **(DR 16094)**

Problem: AvnFPS performance with Lots of TAF Sites

VRH reported that their AvnFPS is set up to display 17 TAF sites and it takes about 5 times longer to display these TAF sites in AWIPS II as it did in AWIPS I. In AWIPS I it takes only 6-7 seconds, but in AWIPS II it takes 34 seconds. **(DR 16092)**

Problem: FFMP switch to HUC5 crashes CAVE (sometimes)

For certain steps, switching form all-and-only small basins layer to HUC5 in FFMP's Basin Table causes CAVE to crash. For other steps, it loads just fine.

Required Behavior: FFMP must not crash CAVE. **(DR 16091)**

Problem: Stop D2DTimeMatcher from constantly updating FFMPResource

Currently the D2DTimeMatcher will retrieve and send data updates to FFMPResource whenever redoTimeMatching is performed. This causes FFMP to attempt to reload data it already has. This must not be happening. (**DR 16088**)

Problem: Revert status message back to local machine

The use of the RuntimeMXBean in the StatusMessage is causing unnecessary delays for all status messages. **(DR 16087)**

Problem: Externalize number of grib decode threads

NCEP needs to be able to change the number of grib decode threads. Externalize this to a property file so it can be overridden at the site. (**DR 16085**)

Problem: Complete removal of hdfFileId

An update script is needed to drop the hdfFileId column. The code (e.g. PersistablePluginDataObject.java) needs to be updated, so the concept of hdfFileId no longer exists in the system. (**DR 16083**)

Problem: Exclude maps database from AWIPS2 daily backup

The NCF has been getting ITO alarms for backup failures. The maps database backup is not completing, because it takes longer that 30 minutes due to the size at some sites that have added some large, local maps. The 30 minute timeout is in postgres, to keep things from going out of control and causing performance issues with the entire system.

After discussion, it is believed that backing up the maps database is not necessary, as the maps database can be recreated using "config_awips2.sh shp" since the shapefiles used for the maps are stored in /awips2/edex/data/utility/common_static/site/LLL/shapefiles, and that directory is backed up to tape weekly.

Required Behavior: Maps database will no longer be backed up to /data/fxa/DAILY_BACKUP/postgres/. **(DR 16063)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-30

– Hard copy uncontrolled. Verify effective date prior to use. –

Problem: GFE: Need to change HLS surge impact statements to match new required datum

The NWS AA is requiring that storm surge values be referenced in public products in relation to above ground instead of above ground level. NWSI 10-601 is being modified to reflect this change. The surge impact statements in the Hazard_HLS.py file need to be modified to reflect this change.

Required Behavior: Need above ground instead of above ground level. **(DR 16057)**

Problem: autoDQC requires level 2 files exist

Currently autoDQC gives an error when level 2 files exist.

ERROR: Do not generate grids and MAP for hydrologic date 20130405 since /awips2/edex/data/share/hydroapps/precip_proc/local/data/mpe/dailyQC/precip/point/precip_2_rha_point_20130405 does not exist.

This is due to Failed DR 15084.

Required Behavior: Give the "files not exist" error when level 2 files not exist. **(DR 16046)**

Problem: SHEF Decoder not filter some data out

At TIR, there's no lid=CLFW2, pe=HG ts=RZ entry in the ingestfilter table. However, data for CLFW2 with pe=HG and ts=RZ did posted to the height table.

Required Behavior: Only data with station-PEDTSE combination matched in the ingestfilter table to be posted to the DB. See shef_load_ingest section and 5.2.1 Data filtering section in the SHEF Decoder operations Guide for more information. (**DR 16036**)

Problem: GFE: HPC ERP precip data not being processed after Day 1

Day 1 is handled properly for the HPC QPF in GFE, but the HPC ERP on Day 2 is not being processed, Day 3 night is the only grid that is being seen

The data has WMOID MENS, MENU98 and it appears that while it is getting into D2D assuming the pqact is correct that GFE smartinits are only processing the Day 1

Required Behavior: All expected precipitation data should be available in GFE. **(DR 16005)**

Problem: LDM user passwordless ssh

LDM user needs to be added to VerifySshKeys.sh so that passwordless ssh works as user ldm between dx1/2 (and other devices) to help maintain local pqact.conf.lll file between devices.

Required Behavior: As user ldm, have the ability to scp /usr/local/ldm/etc/pqact.conf.lll from dx2 to dx1 and vice versa. (**DR 16003**)

Problem: FFMP: BASE level DefaultFFMPconfig_basin.xml file produces all Missing values

The FFMP BASE level DefaultFFMPconfig_basin.xml file produces all Missing (M) values in the FFMP table. The SITE and USER level files work properly. If the user copies the BASE level file to the USER level it works properly. There are no missing values.

Required Behavior: The BASE level DefaultFFMPconfig_basin.xml file should control the configuration and not filter out all table values. **(DR 15992)**

Problem: MPE Choose Hour cuts off seconds in the time field

The seconds field is visible in the date/time field for the "Last Save" and "Last Exec" lines in the "Choose hour" GUI.

AWIPS2: The seconds field is cut-off from showing seconds for the "Last Save" and "Last Exec" lines.

Required Behavior: The seconds field should be visible in the date/time field for the "Last Save" and "Last Exec" lines in the "Choose hour" GUI. (**DR 15977**)

Problem: MPE Satellite Precip & Local Bias Satellite Precip Fields do not match

MPE Satellite Precip and Local Bias Satellite Precip Fields do not match. Local Bias Satellite is one hour later than Satellite Precip. For example: local bias satellite 18z == satellite 17z.

Required Behavior: Satellite Precip & Local Bias Satellite Precip Fields should match. **(DR 15971)**

Problem: MPE–MAP in DailyQC shifted by one category

When displaying MAPs in DailyQC, the colors plotted are one color level higher than they should be. In the attached graphic, the point data for the basins in northern Maine show up with values between 0.10 and 0.20 inches. The color coded plot for MAPS show up as being between 0.20 and 0.30 inches. The 6-hourly amounts also appear to be plotting one level too high.

Required Behavior: Color shouldn't be shifted. **(DR 15970)**

Problem: ADAM (13.1.1) MPE polygon issue

Draw a polygon on and MPE base field (RMOSAIC is the default) and rerun mpe fieldgen. This should affect the resulting multisensor field, but it does not. This is generally used to remove AP from the final product by removing it from the base field.

Also MPE, fieldgen won't rerun unless gage modifications are done.

A better description from the MPE users manual version ob9.2 , section 3.3.9.1, section 5 :

During a run of MPE Fieldgen, polygons are first applied to the base fields and mosaics. The base field with the modifications resulting from the polygon edit is then processed to produce the derived field or mosaic. For example, if an edit polygon is drawn on the Radar Mosaic field to eliminate areas of AP. When MPE Fieldgen is rerun, it first applies the polygon to the Radar Mosaic field. Then the Radar Mosaic is used in the computation of the derived fields (LMOSAIC, BMOSAIC, MMOSAIC, etc.). This function does not work. **(DR 15963)**

Problem: MPE 1 hr Mode – List of Radars for Review Hourly Radar Option not correct

The Review Hourly Radar Option is under the Misc main menu option. When this option is chosen, a window entitled Radar Sites pops up showing the list of all radars in the site's area. The user chooses one radar from the list, chooses OK and then the 4-panel window pops up. Note that the use of this option is expected to increase when the dual-pol capabilities are added to MPE. This is because the 4-panel window will display the raw single-pol and dual-pol radar products side-by-side.

In Version 13.2.1 build on the nhda, the list of radars to choose from is not correct. It does not include all of the radars in the site's area. It looks like the list of radars has used the "office_id" field of the RadarLoc table in the IHFS db to filter out radars. This is not correct. The list of radars should be all radars in the radarLoc table with "use_radar" set to "T". **(DR 15962)**

Problem: KRF:MPE Display 7x7 popup Window problem related to Bad/Not Bad button

In this window, the "Set Bad" / "Set Not Bad" buttons do not appear to be tied to the actual state of the gage (either bad or "not bad"; either in the bad gage list or not).

Once you set a gage bad, the button toggles to "Set Not Bad" regardless of gage state. You cannot then set another gage to bad without closing the popup and opening it again. Further, once the display 7x7 window is closed you cannot change the state of the   gage set from bad to "not bad".

The "Bad/Not Bad" button should reflect the state of the gage selected.

Required Behavior: The "Bad/Not Bad" button should reflect the state of the gage selected and behave the same way as in A1.(see test procedure) **(DR 15961)**

Problem: FFMP freezes when setting the Time Duration to 24 hours

The user was able to repeat a freeze and/or crash when loading FFMP data only when the table was fully loaded (e.g., the tertiary data had completed loading). This was not repeatable if the slider was moved to 24 hours while the tertiary data was still being processed. No errors or informative logs were available. **(DR 15960)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-33

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Problem: Testbed security scans detected vulnerabilities: March 2013

Quarterly security scans were run from the NCF. Results are stored on CD.

Security vulnerabilities identified in the March 2013 scans must be addressed in accordance with DOC (NOAA) security requirements and resolved.

Required Behavior: Vulnerabilities identified by scans are addressed by installing latest rpms. **(DR 15957)**

Problem: MPE–Incorrect content in DailyQC-generated netCDF file

TAR and ACR determined the single A2 netCDF file generated by the MPE-DailyQC GUI with only the "mpe_dqc_save_netcdf" token turned ON created 5 grib files, all identical in content. If the "mpe_dqc_save_grib" token is turned ON as well, the netCDF and grib files vary in content from each other and with an incorrect header (due to float vs. integer situation - DR 15884), but 5 netCDF files are created.

Required Behavior: Should NOT have identical contents for each four 6-hours in the whole day netcdf files. **(DR 15956)**

Problem: GFE: Text locking issues

The following was reported in beta testing of DR 15621 on the NHDA system.

There are text locking issues with GFE text products between the headline and the zone list segment header, and between $$ at the end of the text product and the zone list segment header. **(DR 15943)**

Problem: MPE--Setting gage value to Missing has no effect after use the Display 7x7

Setting a gage value to "Missing' has no effect when done using the "Display 7x7" feature.

Display precip. Gage values, use the "Display 7x7" option from the "Gages" Menu.

Select a gage, then select "Set Missing".

Regenerate Hour Fields (note that regenerate won't actually run unless you make some other kind of change, so another change is made so that the regenerate process actually runs)

Note that the plotted gage value is gone but the grid value was not changed.

Required Behavior: Should also work without close the window. **(DR 15920)**

Problem: If directory defined by mpe_station_list_dir is missing EDEX will crash on start

If the directory defined by mpe_station_list_dir is missing, EDEX will crash on boot with an invocation exception.

This is not platform or site specific (i.e. it happens at RFC, WFO, National Centers, etc)

Under normal circumstances, this directory is set to /awips2/edex/data/share/hydroapps/precip_proc/local/data/app/mpe/station_lists and it is created by installing the awips2-hydroapps-shared rpm

However, if this directory is accidentally removed, or if the site customizes the token, it should not cause EDEX to crash.

Required Behavior: EDEX should not fail to start if this directory is missing. **(DR 15914)**

Problem: Creating a WarnGen Text bulletin for SVS and TOR Exceed NWS Threshold

These two bulletin creations did not meet the threshold value of 0.5 seconds. They took around 2 seconds. **(DR 15909)**

Problem: TextWS: QC error on WarnGen county/zone names

In WarnGen followup products which include a county and a Virginia independent city, when "Send" is used, the text workstation displays the erroneous QC message "List of county/zone names missing." The product format is correct. The error slows down the transmission of the product because the forecaster has to read the error message and decide how to respond. The error affects all WarnGen followup products (CON, CAN, EXP). **(DR 15893)**

Problem: GFE: Sending grids to Webfarm can fail due to permissions

The send grids to the webfarm script generates a log directory structure. The first time it runs, it can create the log directory with the wrong permissions under /awips2/GFESuite/ServiceBackup/data/rsyncGridsToCWF. These permissions need to be 777, so any user can write to that directory because regular user id's are used when the script is executed from GFE.

Required Behavior: The log directory should be 777 permissions, so all users are able to run the script successfully and produce log output. **(DR 15883)**

Problem: Hydro–Table HourlyPc inserted at wrong hour field

The data is being put into the hourlypc table at the wrong time. A PC report valid 16:59 GMT should go into the hourlypp table as a 17:00 GMT value, but it is being filed as a 16:00 GMT value. **(DR 15880)**

Problem: User Administration GUI poorly formats xml files

BCQ was testing the new AWIPS User Administration GUI, which is used to manage the userRoles.xml file. The site level userRoles.xml file that was generated by the GUI was poorly formatted, the entire contents of the file were on one line. It should be better formatted, much

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-35

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like the base file is, so that xml entries are on their own line. It will make things easier to read and troubleshoot.

Required Behavior: The site level userRoles.xml file that is generated from the GUI should have each xml element on its own line, much like the base userRoles.xml. **(DR 15876)**

Problem: Daily QC Edit Precipitation Station Interface

In AWIPS1 and 2, right-clicking on a data point in the MPE DailyQC application brings up the Edit Precipitation Stations interface. The user can then select the Station Quality (Verified, Questionable, Screened(Force),or Bad) for the data point. In AWIPS1, the description of the data to the right of the value in the Station Consistency portion of the window updates immediately after making the change and selecting the Apply button. The description does not change when doing the same thing in the AWIPS2 version. The corresponding color does change on the map in the MPE perspective in CAVE. Right-clicking on the data point again does bring up the changed values.

Required Behavior: When making changes using "Edit Precipitation window", the description on the window should be updated upon clicking on "Apply" button. **(DR 15859)**

Problem: Problem with MPE 7x7 Editor

The NERFC (site TAR) has noticed problems with the 7x7 editor in MPE. When setting stations missing, the missing button becomes inactive after setting a few stations missing. This requires the user to close and reopen the editor to continue setting stations missing. This has happened to several users in the office, and has been seen on at least 3 different workstations

Required Behavior: Button should not be become inactive after setting few stations missing. **(DR 15815)**

Problem: 'Error hatching polygon' popup for WarnGen in BOX CWA

When creating a warning for the BOX CWA, you get a 'error hatching polygon' popup message if a certain region is included in the warning

Required Behavior: Should be able to create a CON without 'error hatching polygon' popup. **(DR 15787)**

Problem: HydroTS: Only frame in focus should be updated when pressing ctrl-r

While testing DR 15459, though more closely related to DR 15066, on RHA and TBDR, the following was observed. When ctrl-r (reset) is pressed, ALL points in zoom mode are reset, not just the frame that has the focus (the more pinpoint reset behavior occurs on A1)

 Required Behavior: When ctrl-r (reset) is pressed, only the frame that has the focus should be updated. **(DR 15784)**

Problem: HydroTS: Data refresh is not instantaneous, as in A1

Data refresh does not appear to be instantaneous as in A1. It appears a data request is made and it's unclear how long it takes to be delivered and under what circumstances the display will refresh with the new data. A1 was instantaneous in its data refresh as it made a database query on the spot and the results were immediately available for display.

Required Behavior: Data refresh should be instantaneous, as in A1. **(DR 15782)**

Problem: psql missing from 64bit

The awips2-psql rpm is missing from the 64bit repo/installation. When sites use psql on the workstations, they are using the AWIPS1 version in /usr/bin which is for an older version of postgres, and they get a warning message when using it, and some functionality may not work.

Required Behavior: awips2-psql 64bit rpm should be installed on workstations. **(DR 15767)**

Problem: GFE: Product editor unlocking zone names when cities list contains framing code

In testing DR 15620, an issue was reported with the product editor unlocking part of zone list of the segment header. Zone list should not be unlocked when cities list is unlocked. **(DR 15728)**

Problem: GFE: Service backup issues with local maps

When service backup is invoked for a site that uses local maps, if the site performing backup doesn't have database entries for those maps, the software fails to notify of the problem. Site HUN has also reported this issue when attempting to back up JAN.

In addition, backup sites need to create database entries for local maps for surrounding sites that they wish to back up. If they fail to generate database entries for the local maps that are in place, then edit areas fail to generate.

Required Behavior: Service backup should function properly even when a localMaps.py file is used by the site getting backed up. **(DR 15721)**

Problem: Grid Identification Localization File Load happening in Reverse

At site BCQ, sometime after 13.1.2 was installed, their local Canadian-NH model stopped storing. It was found that the data was being ingested, and storing, however it was being identified in the AWIPS II system as model name cmcP6 instead of Canadian-NH as their local model definition had been setup.

Required Behavior: Allow site level over-rides to grid model definitions. **(DR 15715)**

Problem: WarnGen: Counties in neighboring CWA should not be hatched

At VEF, CWA shares portions of counties with two other WFOs: Nye county with WFO Elko (LKN) and San Bernardino county with WFO San Diego (SGX).

In AWIPS I, for VEF, only VEF portions of the shared counties can be hatched. However, in AWIPS II, the whole shared counties can be hatched. Consequently, a user can generate a warning that includes that portion of the county which belongs to a neighboring CWA.

Required Behavior: Only CWA portions of shared counties should be hatched. **(DR 15690)**

Problem: FFMP stops processing and Qpid queue backs up on certain errors

If an error occurs at certain points during FFMP processing (such as in DR 15683, when generating radar-bin-to-basin maps), processing will stop and the "ffmpGenerate" Qpid queue will start filling up.

Required Behavior: When the FFMP processor encounters an error, it should continue processing other products. **(DR 15684)**

Problem: Hydro: Time Series failed to plot in group mode

This DR was created based on the issue that couldn't be reproduced in DR 15459. DR 15459 contained a second issue with data not updating with the page/up page down. That issue has passed testing.

The issue described below only happens sporadically at OAX.

There is a re-emergence of an issue that was addressed in 12.7.1, the DR was 14379. The issue relates to graphs in the Hydro Time Series program not drawing in ""Group"" mode. The problem is intermittent. If the user restarts Time Series, sometimes the graph will properly draw. This is related to DR14379. Indeed this issue was fixed in build 12.7.1, but I have seen it return with 12.9.1.

Required Behavior: If data is available it should always plot. **(DR 15677)**

Problem: Cross section terrain disappears if baseline too short

In a normal model cross-section in D2D, there is a hatched terrain on the bottom of the images. See Exhibit 1 below. The user significantly reduced the A/A' line to 1/10 of its original size. See Exhibit 2 below. This shows the new A/A' length. The original A/A' length is the same as the current B/B' length in the image. I reran the cross-section over the much shorter line. See Exhibit 3 below. Note there is no hatched terrain on the bottom of the image.
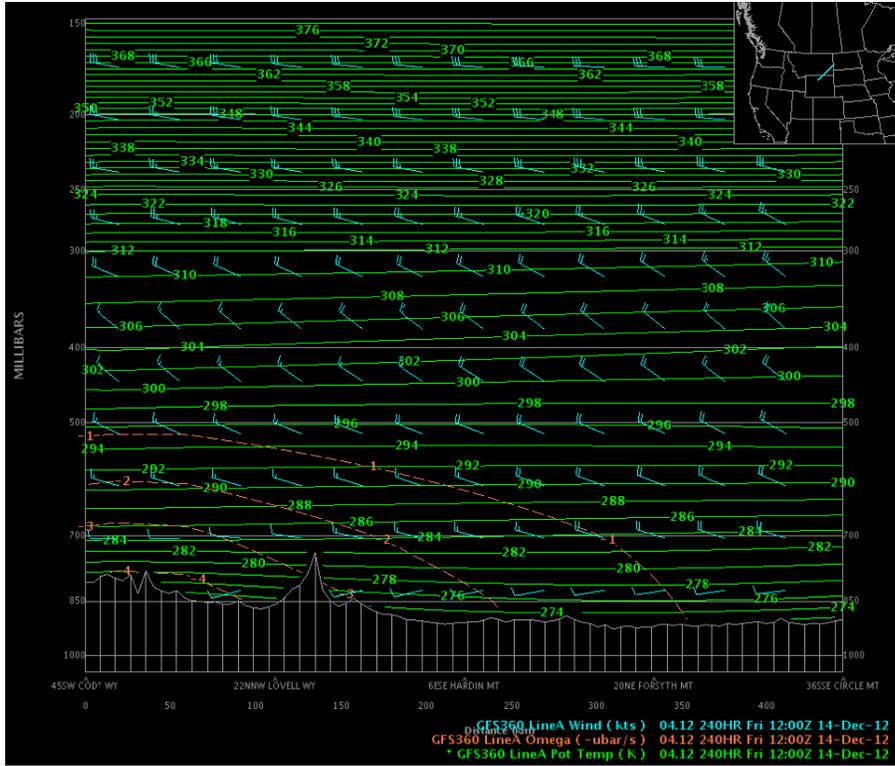
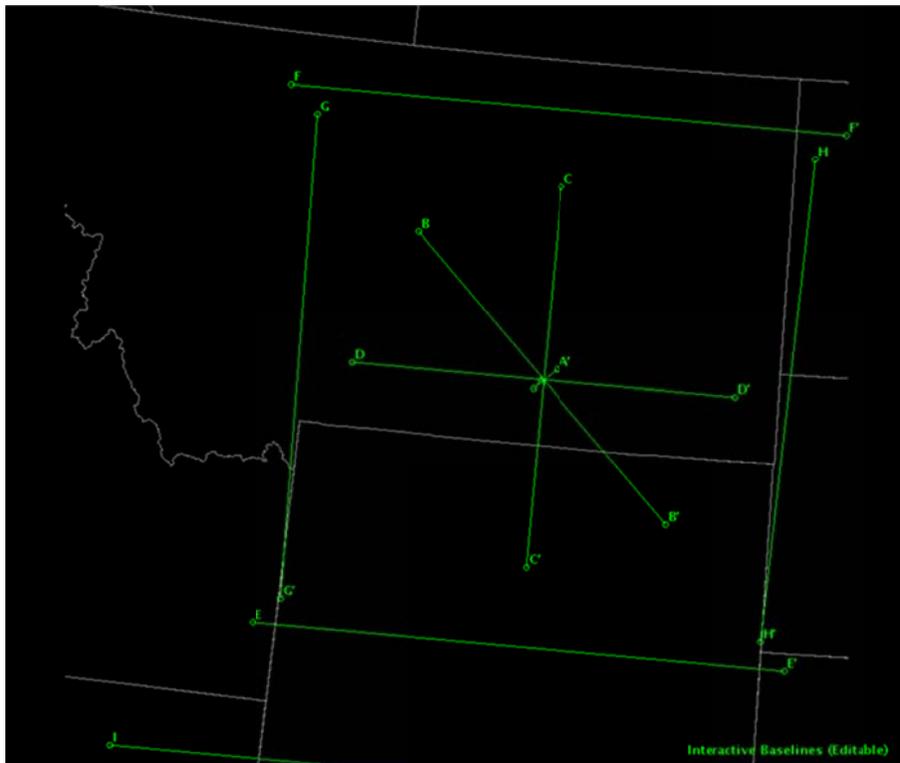*Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013*   A-38

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Exhibit 1. Longlines

Exhibit 2. Sectlines

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-39

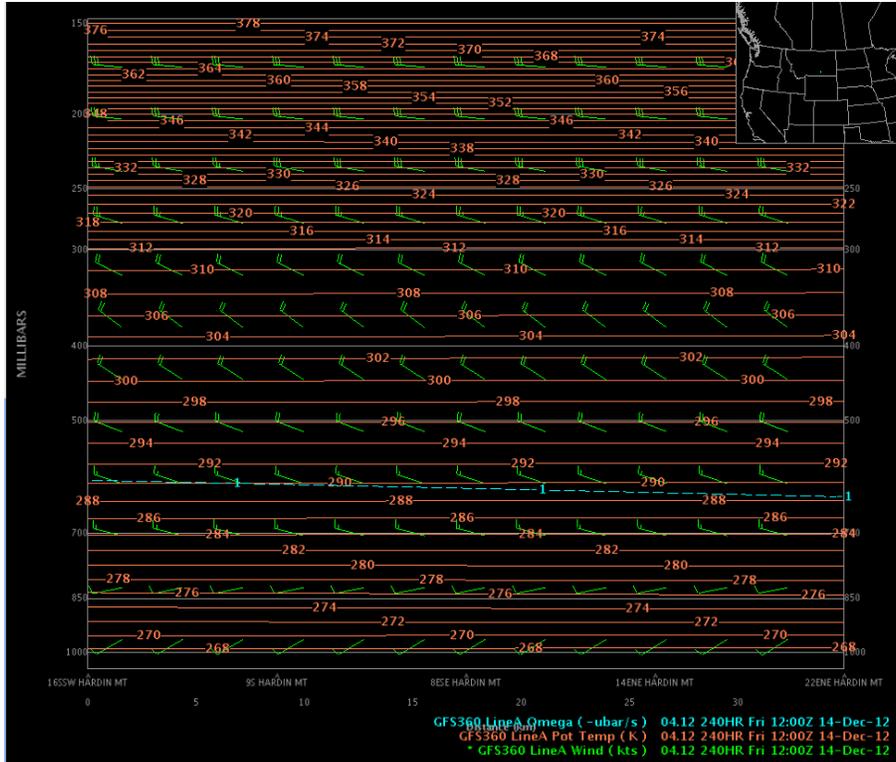− Hard copy uncontrolled. Verify effective date prior to use. −

Exhibit 3. Shortlines

So the problem is this: If baselines (like A/A') is shortened too much, you will lose the hatched terrain at the bottom of the cross-section. It makes it hard for forecasters to determine which part of the cross-section to ignore, i.e., the part that is underground.

This was duplicated on NHDA with the following alertViz error:

```
Error retriving topo value for
lat/lonscom.raytheon.uf.common.datastorage.StorageException: Error processing
RetrieveRequest on file /home/awips2/edex/data/hdf5/topo/srtm30.hdf:
Traceback (most recent call last):

   File "/home/awips2/python/lib/python2.7/site-packages/pypies/handlers.py",
line 84, in pypies_response resp = datastoreMap[clz][0](obj)

   File "/home/awips2/python/lib/python2.7/site-
packages/pypies/impl/H5pyDataStore.py", line 370, in retrieve result =
[self.__retrieveInternal(grp, request.getDataset(), req)] File
"/home/awips2/python/lib/python2.7/site-
packages/pypies/impl/H5pyDataStore.py", line 404, in __retrieveInternal
rawData = HDF5OpManager.read(ds, req)

   File "/home/awips2/python/lib/python2.7/site-
packages/pypies/impl/HDF5OpManager.py", line 62, in read result =
__do2DPointRequest(ds, points)

   File "/home/awips2/python/lib/python2.7/site-
packages/pypies/impl/HDF5OpManager.py", line 125, in __do2DPointRequest
indices.append((pt.getY(), pt.getX())) AttributeError: 'NoneType' object has
no attribute 'getY'
```

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013　　　　A-40

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Required Behavior: Should be able to shorten baseline as in A1 and successfully display cross section with terrain at bottom. **(DR 15662)**

Problem: WarnGen: Template changes for new urban bounds shape file

AWIPS II is missing the AWIPS I WarnGen ability to treat cities as polygons. In AWIPS I, Denver County CO is split into two different entities via localization. Part of the county is called "Denver" and the other part is "Denver International Airport." Both act as "urban areas" in AWIPS I. AWIPS II prevents WFO BOU from warning only the airport area and not the main population center of the city. Furthermore, AWIPS-II cannot include the airport terminal in warnings. The change will allow WarnGen to automatically specify portions of cities such as "NORTHEAST DENVER." This will also allow cities to be split into different geographic entity polygons, such as Denver city and Denver International Airport (DIA). As a result, WarnGen could automatically specify portions of DIA, such as the terminal.

This DR replaces DR 14739.

To implement the urban bounds functionality, three tasks are needed:

1. The NWS will create a new urban bounds shape file

2. RTS Omaha will make the WarnGen Java source code changes needed to use the new shape file (DR 15637, DCS 106)

3. The NWS WarnGen Template team will make the template changes needed to use the new shape file (this DR)

Shannon White is working with OS&T (David Pan and Jim Calkins) on creating a new urban bounds shapefile. After review by all the WFOs, the new shapefile will become part of the AWIPS-II baseline. Shannon has provided RTS an early version of the new shape file with a subset of WFO urban bounds data. RTS Omaha (David Sanchez) is making the WarnGen urban bounds Java changes under DCS_106.

Testing of DCS_106 changes by the WarnGen Template Team in September 2012 found several WarnGen Java errors that need to be corrected. The following underlying Java errors need to be fixed before the Team can continue testing the DCS_106 changes:

1. 15425 - WarnGen: mile markers and other point sources cannot be correctly sorted (target OB 12.11)

2. 15426 - WarnGen: main GUI locked on COR (target OB12.11)

3. 15428 - WarnGen: incorrect part of city sometimes returned (scheduled with DCS_106, target OB13.2)

4. 15429 - WarnGen: valid points sometimes incorrectly removed from impacted locations list (target 12.11)

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-41

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When the above underlying Java items are fixed, then the WarnGen Template Team will proceed with making the template changes. It is possible that more Java errors will be found before the template work can be completed.

Update: This also includes fixes for DR 15202 and DR 15689 as follows.

DR 15202: During one of the recent releases, format errors appeared in the WarnGen mile markers. The following incorrect mile marker text is produced in OB12.7.1:

THIS INCLUDES THE FOLLOWING HIGHWAYS...

INTERSTATE 70 BETWEEN MILE MARKERS 2## AND 40##

.

HIGHWAY 27 BETWEEN MILE MARKERS 150## AND 182##

An extra ## is appended to every mile marker and an extra <CR><dot> is appended after each highway.

The error affects WFOs who add optional mile marker information after the fourth bullet of WarnGen products.

The mile marker template logic has not been changed. Files mileMarkers.xml and mileMarkers.vm have been the same since at least January 2012. The mile marker logic was working fine until probably the June or July release. The Velocity template software was updated in OB12.6 (DR 14555), from version 1.5 to 1.7. The WarnGen template team suspects that either a WarnGen Java change is causing the error or that the Velocity upgrade is causing the error.

DR 15689: While selecting short format for mile markers, every mile marker is listed. AWIPS I only lists the first one and the last one. Screenshots are attached to show the behaviors in AWIPS I and AWIPS II.

For continuous mile markers, the output of short format of mile markers should have only the first and the last mile markers.

(DR 15638)

Problem: 64-bit pygtk needed

pygtk is not working on 64-bit systems, impacting local application development.

The package is installed (awips2-python-pygtk) in 64bit (as it was in 32bit) but for some reason the module won't import in 64bit like it did in 32bit. One should be able to launch /awips2/python/bin/python and then run "import pygtk". Right now that gives an error in 64bit, but does not in 32bit. This can only be tested on the 64bit workstations. 32bit can be verified on dx3/4 or the PXs.

Required Behavior: Fix pygtk. Running /awips2/python/bin/python and then typing in "import pygtk" should not return an error saying the module is not found. **(DR 15607)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-42

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Problem: Text window interleaves practice and operational text

Currently, whether one is in practice or operational mode, the text window application displays both practice and operational text products.

Required Behavior: If CAVE is running in operational mode, the Text Window app should only display operational mode products. If it is running in practice mode, it should only display practice mode products. **(DR 15505)**

Problem: GFE: ifpIMAGE issue when mask is used and smoothing set

When using a mask and turning on smoothing, ifpIMAGE generates images with a border around the mask. This is different from AWIPS I.

Required Behavior: The mask border does not show in AWIPS I when smoothing is on. **(DR 15398)**

Problem: NCEP Hydro RFCFFG display not updating correctly

In AWIPS 1, the NCEP Hydro 1HR RFCFFG display updates with each new data update by clearing the old data and redrawing the display with the new data, as it comes in.

In AWIPS 2, this is not done. When new data comes in, most of the display is cleared for the new data, however, there are usually some RFCs that do not clear when a new data update begins. Also, while the RFCs are updating, there are times where new RFCs will not automatically update, as is done in AWIPS 1.

Required Behavior: The NCEP Hydro 1HR RFCFFG display should update correctly as updates come in, like AWIPS I. **(DR 15394)**

Problem: MPE– Q2 Data display different than in AWIPS1

In AWIPS1, if there is no Q2 data, the Q2 Local Bias mosaic is displayed in the color of missing data. In AWIPS2, it is displayed in the color of zero data.

Required Behavior: For an hour when Q2 data is missing, the Q2 Local Bias mosaic is still created, but should be displayed in the color of missing data, not zero data. (This should be the same for all types of sites.). (This DR is a follow-up to A2 DR12581.). **(DR 15338)**

Problem: Gribit Application Generates Grib files with incorrect lat/lons

NCRFC reported that the Gribit application, which converts xmrg file to grib, generates grib with grid points being incorrectly shifted 1/2 grid box to the southwest.

Required Behavior: NCRFC reported that the Gribit application, which converts xmrg file to grib, generates grib with grid points being incorrectly shifted 1/2 grid box to the southwest. To resolve the issue, shift grid box 1/2 to north and east direction. **(DR 15251)**

Problem: DMD Radar Graphic Display does not match SCAN DMD Table display

During development and testing of DR 14710 it was found that the DMD Radar Graphic does not display the same range of the SCAN DMD Table. It has been determined that the DMD Radar Graphic is displaying is incorrect because it is using the wrong unit. Both should display the range in nautical miles. The attached images display the same DMD graphic for the same radar from the same ORPG at the same time. These should be identical but are not.

Required Behavior: The DMD radar graphic should show the same range as the SCAN DMD Table. **(DR 15150)**

Problem: GFE: Error running ifpImage

BCQ reported that they were not able to run ifpImage from a server at BCQ. This used to work a while back. It was fixed in TRAC ticket #2927. **(DR 15053)**

Problem: GFE: Day 8 GFS40 data does not display even when available

In D2D from the Volume Browser, the user can select the GFS40 from the volume menu under sources, and then precipitation from the Sfc/2D menu in Fields, and then hit load to load the precipitation field from the GFS40. Setting the frames in D2D to 64, the user can now view all of the precipitation data from the GFS40. The user can view it every 6 hours from model time 00hr to 180hr. The QPF grids are created based on this data in GFE. After 180hr in the model time, the user gets the GFS40 every 12 hours out to 240 hours. So going forward in time, the user has QPF at 192 hr, 204, 216, 228, and 240 hr. The QPF from these 12 hour time steps are not getting into GFE. The QPF in the GFS40 is still a 6 hour accumulation. For example the precipitation from 174hr to 180hr will be viewed at the 180 hour time frame. The user will not have any precipitation for the 180 to 186 hour time frame, but the user will have QPF for the 186 to 192 hr time frame. This QPF is not getting into GFE. Likewise going ahead another 6 hours, the user will not have any data from 192 to 198hr, but we will have QPF from 198 to 204hr. Again in D2D the user can view the 6 hour precip total at 204 hr, but there is not a QPF grid in GFE for the 198 to 204 hr time frame. (**DR 14918**)

Problem: Procedure 'Alter' button does not work for changing point/line for Point data

In Time Height mode for Point data, changing point in a procedure using the Alter button does not actually change location of the display; noted same thing on NHDA in Cross Section mode for changing the Line in a procedure.

Reported from OUN:

Point A is located at Oklahoma City, Oklahoma, KOKC.

Point F is located at Wichita Falls, Texas, KSPS.

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-44

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1. Use the volume browser to load time-height for relative humidity at Point A with 12 frames selected. [Observe that the label at the lower right side of the D2D pane reads, NAMBufr ptA KOKC Rel Humidity (%), and that the inset box at upper right properly shows the location of Point A.]

2. Save this bundle to a procedure. Move this pane out of the main pane in D2D, but keep it handy for comparison.

3. Make sure you are still set to load 12 frames. Attempt to load the procedure for Point F by using the Alter Button. In the Alter GUI, click the check box for point/line, and use the pull-down menu for points to select Point F. Click Load.

4. Observe that the label at the lower right side of the newly loaded bundle reads,

"NAMBufr ptF KOKC Rel Humidity (%)." The label has changed to reflect ptF, but it still reads KOKC rather than KSPS. Also, the inset box at upper right shows the location of point F. However, when comparing this newly loaded bundle to the one you loaded for Point A earlier, you will notice that the data is the exact same. So the label has changed slightly, to read ptF instead of ptA, and the inset box indicates point F, but the data and much of the label still reflect data for point A.

Required Behavior: When using a procedure, changing the point or line location of display using the 'Alter' function should result in a display representing the new location. **(DR 14824)**

Problem: Radar Tool Vr Shear reports values too large by a factor of two (A1 DR 21355)

The Memphis WFO reported that speed difference from the VR Shear tool (rotational velocity which is the velocity difference divided by two) is sometimes very wrong. Specifically (in the example cited), the SRM image shows that the northern point is 38 kt away from the radar and the southern point is 73 kt toward the radar, this should get a speed difference of about 55 or 56 kt. Yet the display shows 104.9 kt. Meanwhile, the base velocity image shows the northern point is about 7 kt toward the radar and the southern point is 123 kt toward the radar, this should be a 58 kt difference and it shows a 58.4 kt difference. Why is the data on the SRM image about twice what it should be? Forecasters typically use the speed difference to assess the strength of the storm. This problem can cause bad warning decisions and/or lost time manually reassessing the storm. **(DR 14587)**

Problem: FFMP variable data sources not implemented

NWSHQ: In AWIPS I, FFMP was designed to handle variables data sources, not just radars. FFMP could make use of any data on the following domains: HRAP grid (and derivative), lat/lon grid, 88D raster grid, 88D polar grid.

(The FFMP documentation should be read to see a complete list of domains FFMP can handle.) Data sources that exist in these domains include (but are not limited to) HPE, SCAN QPF, Q2. In CAVE, it seems that FFMP has only been designed to make use of radar data (i.e.: DHR product, on an 88D polar grid). This must be expanded to include the domains noted in the FFMP documentation. This is a VERY big omission in FFMP in AWIPS II.

Update 1/11/11: FFMP in AWIPS II must have its data source definitions driven by configuration, not plug-in development, and be valid for at least the following data type and domains:

Domains:

    * WSR88D Polar Grid

    * WSR88D "VIL" grid (azimuthal equidistant)

    * HRAP grid

    * LatLon grid

    * GIS shapes

And derivatives (in scale) of all of the above (except GIS shapes) (i.e.: 1/4 HRAP, or polar degree by 1/4 km, etc.)

    * specific data types:

    * WSR88D DHR product (WSR88D polar grid, 1x1)

    * WSR88D DPR product (Dual Pol) (WSR88D polar grid, 1x0.25

    * HPE, BiasHPE (1/4 HRAP)

    * HPN, BiasHPN (1/4 HRAP)

    * RFC FFG (HRAP)

    * SCAN QPF ("VIL" grid)

    * FFMP small basin GIS shapes

Any FFMP data source also needs to be mosaicable (like RFCFFG). In AWIPS I, the methods of mosaicking were extremely simple (latest overlay), but additional mosaicking methods were expected to be developed in the future. **(DR 6364)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-46

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3. Open DRs and DCSs

This section lists DRs (critical) that are associated with either the current release or a previous release and that have been deferred to the immediate next release (OB13.5.1) and DCSs for the next release. This list is as of the current date. It is subject to change.

[Note: All other open DRs prior to release OB13.4.1 can be accessed through the AWIPS II Dimensions database using the respective release identifiers.]

DRs: Release 13.5.1

No.	DR	Description
1	16450	WarnGen/FFMP EXT polygon can be moved if centroid is moved
2	16446	Fix ClassCastExceptions in MergeVTEC
3	16445	GFE suite RPM not creating needed directory for active table sharing
4	16416	Reduce memory usage of FFMP in CAVE
5	16414	Fix RadarServer build
6	16408	New metar2shef filtering ability is not working properly
7	16387	Invalid WarnGen pop-up window
8	16383	CAVE freezes when maps menu is selected before WarnGen finishes loading
9	16379	Housekeeping DR - File Removals - NCEP OB13.5.1 - CAVE
10	16378	Housekeeping DR - File Removals - NCEP OB13.5.1 - EDEX/Common
11	16376	Coastline Polygon issues
12	16368	NullPointerException in ingestData logs when loading bufrua
13	16367	Hydro: Attempting to display the Product Viewer Dialog causes NullPointerException
14	16366	Perspectives lose ability to advance frames using arrow keys when closing a perspective with the GFE perspective displayed
15	16365	AvnFPS TAF: Unable to issue TAFs
16	16352	WarnGen can pop up errors if the Create Text button is clicked rapidly
17	16350	Local & Regional Warnings do not display consistently
18	16349	D2D procedures dialog can hang CAVE if it takes too long to find procedures
19	16348	Multiple problems with the TPCSurgeProb in D2D
20	16347	Improve error handling of thrift and http error messages
21	16346	Capabilities throw exception when matching one is not found in bundle
22	16345	NullPointerException while initializing PlotResource2
23	16344	MetarPrecipResource needs spatial filter
24	16343	Unpack com.sun.jna plugin
25	16342	Move hibernate logging to separate files
26	16341	SCAN - add dialog notification when trying to close dialog
27	16340	Derived Parameter timeouts are annoying and do not help diagnose issues
28	16339	CAVE can freeze on shutdown
29	16338	Grid files are orphaned when large grid files fail to decode

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-47

– Hard copy uncontrolled. Verify effective date prior to use. –

No.	DR	Description
30	16337	Several Hydro Applications fail to load
31	16333	Vector products cannot be sampled in D2D
32	16323	Text decoder can lock up
33	16283	Vector products cannot be sampled in D2D
34	16282	AFC Dual Domain ETN issues
35	16281	Issue exporting grids when site id is not the same as GFE grid domain id
36	16275	Popup window appears with Convective Outlook product updates
37	16273	FFMPConfig.java Bug with Multiple Tables
38	16272	Remove dataURI from database where possible
39	16271	NewAbstractEditor needs improved
40	16246	CAVE crash caused by accessing data delivery help page
41	16232	Hydro Time Series Toggle Traces Not Working
42	16225	Hydro--Shefdecoder incorrectly post data to wrong time w/ msg has trail slash
43	16219	Export KML images are plotted incorrectly (upside-down)
44	16196	Housekeeping: Disable tear-off menus in GFE
45	16188	Change feedtype for ^{AG..[0-9][0-9]) (KWB.) to ANY
46	16170	Fix edexServiceList rpm delivery and edex_camel startup
47	16162	RADAR: remove "wind behind" from MIGFA display
48	16142	SCAN: SCAN menu missing "QPF from <radar>" and "Hail diagnostics".
49	16110	VB: Having multiple levels equiv. to surface level can cause display problem e
50	16070	Problem with dataMapping tag in satelliteImageryStyleRules.xml
51	16066	Issues with the BUFRMOS data plugin tables
52	16065	GFE: Edit -> Undo Grid Edit behavior different from AWIPS I
53	16053	Running MpeFieldgen in the GUI
54	16023	Radar: Implement Fast WSR-88D Volume Coverage Pattern
55	16013	WarnGen: Toggling selection of the only county in warning does not match A1
56	16006	NSHARP project - Housekeeping - Request for Directory and File Removals
57	15989	FSI: Vertical Slice display breaks with new ORPG SAILS feature
58	15980	Hydro time Series control did not default to selected gage
59	15951	GFE: TAF formatter failed due to complex Wx grids
60	15939	GFE ifpServerText error with delete command
61	15912	FFMP: BASE level FFMPSourceConfig.xml has incorrect paths for RFCFFG
62	15863	FFMP initial load time
63	15809	Errors when loading products from Volume menu and Cross section plots
64	15764	Some grids do not ingest correctly due to conflicting coverage definitions
65	15733	TextWS: Need to allow user and site customization of textWS features
66	15727	Cannot use the exit button from the CAVE menu if it has been torn off
67	15711	Hydro: script run_report_alarm is not functioning properly

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-48

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No.	DR	Description
68	15701	NSHARP: Resizing window results in errors
69	15449	Problems with the spell checker in GFE
70	15377	Localization: Protected files should not have "Move To" or "Delete" menu options
71	15146	FFMP processing cycle time
72	15132	MSAS/LDAD QC plots do not work
73	14996	Sampling of hourly METAR plots
74	14983	GFE: smart script encodeEditArea failed s
75	14907	FFMP: Cannot configure GUID ColorCell option in FFMP table
76	14596	edex_rcm/start-config bug prevents service start up
77	14435	D2D: Images fail to load after procedure fails to load
78	14300	MSAS Observations: Error in Point Data request
79	14211	RFC MPE not displaying in D2D
80	7613	SCAN environmental data origin

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-49

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4. Design Changes Addressed in the 13.4.1 Delivery

The Design Changes for OB13.4.1 are summarized in this section.

Architecture Changes

- PyPies moved from dx1f to dx2f
- LDM no longer running on dx2
- qpid runs on px1f at sites with remote CPSBNs and LDM runs only on cp1f

WarnGen Urban Boundaries

Allow WarnGen to issue products based on urban boundaries via code, template, and shapefile changes. Code and template changes will be checked in against this DCS. Shapefile changes will be nationally delivered via NOAA1.

[*Note:* For more information, see OB12.9.1 **DR 14739**, which was replaced by **DRs 15637** and **15638**. **DR 15637** is the actual implementation of the DCS described here (i.e., **DCS 106)** and is thereby canceled (the description of DR15637, however, is provided below for informational purposes). **DR 15638** remains in effect as it covers template changes that must be done by the NWS WarnGen Template Team. It is included in the current release. For a description of DR15638, see section 2 of this Release Notes document.]

DR 15637: AWIPS II is missing the AWIPS I WarnGen ability to treat cities as polygons. In AWIPS I, Denver County CO is split into two different entities via localization. Part of the county is called "Denver" and the other part is "Denver International Airport." Both act as "urban areas" in AWIPS I. AWIPS II prevents WFO BOU from warning only the airport area and not the main population center of the city. Furthermore, AWIPS II cannot include the airport terminal in warnings. The change will allow WarnGen to automatically specify portions of cities such as "NORTHEAST DENVER." This will also allow cities to be split into different geographic entity polygons, such as Denver city and Denver International Airport (DIA). As a result, WarnGen could automatically specify portions of DIA, such as the terminal.

To implement the urban bounds functionality, three tasks are needed:

1. The NWS will create a new urban bounds shape file.
2. RTS Omaha will make the WarnGen Java source code changes needed to use the new shape file (this DCS_106).
3. The NWS WarnGen Template team will make the template changes needed to use the new shape file (DR 15638).

Shannon White is working with OS&T (David Pan and Jim Calkins) on creating a new urban bounds shape file. After review by all the WFOs, the new shapefile will become part of the AWIPS-II baseline. Shannon has provided RTS an early version of the new shape file with a subset of WFO urban bounds data. RTS Omaha (David Sanchez) is making the WarnGen urban bounds Java changes under DCS_106.

Testing of DCS_106 changes by the WarnGen Template Team in September 2012 found several WarnGen Java errors that need to be corrected. The following underlying Java errors need to be fixed before the Team can continue testing the DCS_106 changes:

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2. 15426: WarnGen: Main GUI locked on COR (target OB12.11).

3. 15428: WarnGen: incorrect part of city sometimes returned (included with DCS_106, target OB13.2).

4. 15429: WarnGen: valid points sometimes incorrectly removed from impacted locations list (target 12.11). **(DCS_106)**

ifpnetCDF requires AW_SITE_IDENTIFIER be an active GFE domain to function

NHC is trying to run ifpnetCDF on NH2 grids; however, NHC, which is what they are localized as, isn't an active GFE site and ifpnetCDF for whatever reason requires that.

The following error was reported during ifpnetCDF processing: jep.JepException: <type 'exceptions.NameError'>: name 'main' is not defined >>> File "<string>", line 1, in <module>

A user created a site/localConfig for NHC, but had to use GFESITE of NH2 because then siteAwareRegistry bombs out because NHC isn't in the baseline serverConfig so even though everything in site/NHC/gfe/config/*Config references NH2 it at least activates site NHC and now ifpnetCDF runs OK.

A similar issue occurred at HPC when they tried to run ifpnetCDF on HAK grids.

Required Behavior: NCEP needs to be able to run ifpnetCDF for the domains that they use in their work (HAK, NH2, etc.). **(DCS_116)**

Merge Support (Omaha 13.4.1 Delivery)

The actions covered under this DCS are to resolve issues, simplify, and streamline the process of building, merging and installing new builds. **(DCS_186)**

NPP (Omaha 13.4.1 Delivery)

This DCS covers the implementation of the ingest and display of NUCAPS sounding data type. **(DCS_187)**

PostgreSQL 9.2.3, PostgreSQL 9.2.4 and PostGIS Upgrades (Omaha Original Delivery

This DCS covers the 9.2.3 and 9.2.4 PostgreSQL and the PostGIS upgrades. **(DCS_188)**

Code changes associated with PostgreSQL 9.2.3, 9.2.4, and PostGIS upgrades

This DCS covers issues discovered and fixed during testing due to the PostgreSQL and PostGIS upgrade. **(DCS_189)**

Upgrade QPID to 0.18 (Omaha Original Delivery)

This DCS covers the QPID 0.18 upgrade. **(DCS_190)**

Thin Client Authentication (Omaha 13.4.1 Delivery)

This DCS covers the Thin Client Authentication work assignment which supports the IMET user's ability to retrieve and display data via a regional headquarter office. A port in the firewall will be opened and user authentication will be against the NOAA LDAP at the proxy server before requests ever reach EDEX or PyPIES. **(DCS_191)**

NCEP NAWIPS Migration for 13.4.1 - EDEX and EDEX Common

This is a bulk upload of all NAWIPS Migration packages supporting the AWIPS2 EDEX Services. **(DCS_192)**

NCEP NAWIPS Migration for 13.4.1 - CAVE Plugins

This is a bulk upload for all CAVE plugins for the NCP (National Centers Perspective). **(DCS_193)**

Java 1.6u43 Upgrade

This DCS covers the upgrade of the existing Java RPM for both 32-bit and 64-bit. **(DCS_196)**

Statistics Update LDM to 6.11.2

This DCS covers the 6.11.2 LDM upgrade. **(DCS_197)**

Code changes associated with QPID 0.18 upgrade

This DCS covers issues discovered and fixed during testing due to the QPID upgrade. **(DCS_198)**

Wes2Bridge (Omaha 13.4.1 Delivery)

This DCS covers the update of edex-environment to recognize the qpid-java 0.18 rpms. **(DCS_199)**

XML/base, VM, and RPM Changes

The changes to XML/base, VM, and RPM made in OB13.4.1 are extensive. For a complete list of these changes, see Appendix A.

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-53

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5. Known Problems, Workarounds, and Additional Release Notes

This section provides lists any workarounds or additional release notes that have been issued for the current release. They are identified by their Release Note title. It also lists any known problems (Priority: 1-Critical), either in the current release or in previous releases, which have been deferred to an unnamed future release. These are identified by the Problem title.

Note: The content listed under the Release Note title can be found at the following link. These are updated periodically, so please check for the latest updates to the 13.4.1 release.

> https://docs.google.com/a/noaa.gov/spreadsheet/ccc?key=0AgBfHuim8iP0dDluY 0d4WFY5WkZNTDZncUFlVDFGX2c#gid=12

Release Note: DR 1750

The edexBridge executable has been updated; awips2-ldm will need to be upgraded.

Release Note: Redmine #1663

A PostgreSQL upgrade has been completed as part of 13.4.1. AWIPS II has switched to PostgreSQL 9.2.3 from PostgreSQL 8.3.4.

There is a Microsoft Word document that contains the steps required to upgrade a PostgreSQL 8.3.4 installation to a PostgreSQL 9.2.3 installation; this document and a tar file with the associated scripts will be provided via e-mail when 13.4.1 is delivered. Additionally, when performing a clean install of PostgreSQL, four additional steps will temporarily need to be completed until we update geotools (the upgrade document already includes steps to run the following steps).

1. Start PostgreSQL.

2. /awips2/psq/bin/psql -U awips -d metadata -f /awips2/postgresql/share/contrib/postgis-2.0/legacy.sql

3. /awips2/psq/bin/psql -U awips -d maps -f /awips2/postgresql/share/contrib/postgis-2.0/legacy.sql

4. Stop PostgreSQL.

ADE users have the option of performing the upgrade; but, it may just be easier for them to do a full install of the AWIPS II development baseline. Either way, they will also need to install the legacy postgis functions (steps 1-4 above) (ADE instructions update).

Additionally, both a 32-bit and a 64-bit PostgreSQL and psql are now built. The database configuration and the database rpms are now noarch instead of i386.

Release Note: Redmine #1663

The version of pgadmin3 that we are currently using is not compatible with PostgreSQL 9. And due to the age of our Linux distribution, an official release of pgadmin3 for our Linux distribution is not available. So, there is now an awips2-pgadmin3 rpm. When installed, this rpm

will install pgadmin to /awips2/pgadmin3. The new pgadmin3 is also backwards-compatible with PostgreSQL 8.3.4.

pgadmin3 is also dependent on a minimum of the following rpms:

SDL-1.2.10-9.el5

wxGTK-2.8.12-1.el5.rf

wxGTK-devel-2.8.12-1.el5.rf

Release Note: Redmine #1750

A Qpid upgrade has been completed as part of 13.4.1. We have switched to Qpid 0.7 to 0.18. Since, we are switching from the C++ qpid to a Java qpid; you will need to completely remove the previous version of qpid from the system.

1. yum remove awips2-qpid*

2. rm -rf /awips2/qpid

3. We will provide a tar file with dependencies that may need to be installed before the java qpid can be installed

4. yum install qpid-java*

5. chown -R awips:fxalpha /awips2

/etc/init.d/qpidd is still used to control qpid.

Developers will now use: /awips2/qpid/bin/qpid-server (ADE instructions update)

The dependencies previously mentioned include the following:

antlr-2.7.6-4jpp.2

gjdoc-0.7.7-12.el5

java-1.4.2-gcj-compat-1.4.2.0-40jpp.115

jpackage-utils-1.7.3-1jpp.2.el5

libgcj-4.1.2-48.el5

log4j-1.2.13-3jpp.2

xml-commons-1.3.02-0.b2.7jpp.10

xml-commons-apis-1.3.02-0.b2.7jpp.10

Release Note: Redmine #1844

Qpid-stat and qpid-queue-count have been updated to utilize the new REST-based web services provided by QPID 0.18. The arguments to qpid-stat and qpid-queue-count have not changed; however, the information that will be displayed is slightly different. And since the current REST service implementation does not support retrieving subscription information, qpid-stat will display session information when the -s argument is used. The port that is passed to the python

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-55

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scripts is no longer the port that qpid is using; it is now the port that the https REST service is running on. The port defaults to 8180.

Release Note: Redmine #1293

deltaScripts/13.4.1/removeHdffileidColumn.sh: this script will remove the hdffileid column from any tables in metadata that have it.

Release Note: Redmine #1874

The number of grib and ncgrib decode threads are now configurable. In /awips2/edex/conf/resources, modify com.raytheon.edex.plugin.grib.properties to adjust the number of grib decode threads and/or modify gov.noaa.nws.ncep.edex.plugin.ncgrib.properties to adjust the number of ncgrib decode threads.

Release Note: Redmine #1915

The AWIPS II Java has been updated to version 1.6.0_43. AWIPS II Java will need to be updated on every machine that is installed on. The build servers will also need the newer version of AWIPS II Java.

Release Note: Redmine #1915

The AWIPS II Runtime Environment for Windows has been updated; it now includes Java 6u43. Since the msi intallers do not currently support upgrades, the existing AWIPS II Runtime Environment will need to be removed and the new version of AWIPS II Runtime Environment will need to be installed. The new version of AWIPS II Runtime Environment is 1.0.2.0.

Release Note: Redmine #1835

The AWIPS II LDM has been updated to version 6.11.2. The rpm will attempt to complete most of the ldm configuration during installation now. The ldm directory structure has slightly changed. LDM is now rooted in /usr/local/ldm with a sub-directory for the current version of ldm so the /usr/local/ldm link to the versioned ldm directory that used to be in /usr/local is no longer required. The configuration file for ldm has changed as well; ldmadmin-pl.conf has been replaced by an xml-based configuration file - registry.xml. LDM will now also work on both 64-bit and 32-bit machines; however, there are a few dependencies that may need to be installed on the ldm server, including:

   * qpid-cpp-client = 0.7.946106-28.el5.centos.1

   * qpid-cpp-client-devel = 0.7.946106-28.el5.centos.1

   * zlib-devel

   * /usr/lib/libz.a

Release Note: Redmine #1899

Minor changes have been made to the edex-environment macro as a result of the QPID upgrade to QPID 0.18. The edex-environment configuration has changed; refer to the Wes2Bridge SMM document for more information.

Release Note: Redmine #1861

* deltaScripts/13.4.1/updateModelSoundingPaths.sh: this script will move any existing modelsounding hdf5 files to the new location based on the pathing changes that have been made. This script will need to be executed on the database / pypies server after the upgrade and PostgreSQL must be running.

This script is also dependent on determineRefTimeDirectory.py and modelsoundingFileName.py which are in the same directory as the script.

Release Note: DR 16063

Due to long run times on a maps database backup conflicting with timeouts put into postgres (to prevent rogue postgres commands impacting system performance), we are removing maps from the backup_pgdb_a2 script. This shouldn't impact sites since the maps database is built from shapefiles that are backed up. So if NCF or sites need to restore the maps database, or shapefiles in the maps database, they can reinstall the awips2-maps-database to initialize the database, and use config_awips2.sh shp LLL to import the latest base and local shapefiles into the maps database.

Release Note: DR 16003

VerifySshKeys.sh has been updated to generate keys for the ldm user. If you would like password-less ssh for user ldm, then run the script.

Release Note: Redmine #1982

The qpid-java rpms have been renamed to awips2-qpid-java; so, any previous installations of qpid-java will need to be completely removed before awips2-qpid-java is installed.

Release Note: Redmine #1970

Unique sequences were added for each plugin data type. This provides a measure of separation between plugins and prevents roll over issues from utilizing one sequence for all data types.

deltaScripts/13.4.1/createPluginDataObjectSequences.sh: Needs to be executed to create the sequences for each plugin to be able to ingest data

With the changes to PluginDataObject sequences, here are some annotation changes for non baseline plugins to work:

If new @Entity annotated classes are added to the PluginDataObject hierarchy:

1. If it is not abstract and not a super class for @Entity annotated subclasses, then add a SequenceGenerator annotation:

   ```
   @SequenceGenerator(initialValue = 1, name = PluginDataObject.ID_GEN,
   sequenceName = ""<tablename>seq"")
   ```

2. If it is abstract and a super class for @Entity annotated subclasses:

   - If there are @ManyToOne or @OneToMany relationships to the class, then an @Entity annotation has to be used otherwise use a @MappedSuperClass annotation

   - Add an @Inheritance annotation @Inheritance(strategy = InheritanceType.TABLE_PER_CLASS)

   - Add an @Sequence annotation @SequenceGenerator(name = PluginDataObject.ID_GEN)

Release Note: Redmine #1949

The GFE Database has been normalized to have separate ParmId and DatabaseId tables. The lock table was also updated to reference the new parm id table: New tables are gfe_parmid, gfe_dbid, and gfe_locks (renamed from gfelocktable).

deltaScripts/13.4.1/normalizeGfe.sh Needs to be executed to move the existing GFE databases into the new structure.

Release Note: Redmine #1951

The warning_ugczone has been integrated into the warning and practice_warning tables as a comma delimited list of ugczones. This prevents warning and practice_warning products from utilizing the same warning_ugczone data.

deltaScripts/13.4.1/updateWarningTables.sh: Needs to be executed to integrate the warning_ugczones table into the respective records on the warning and practice_warning tables.

Release Note: Redmine #1961

A new flag, gribMode, has been added to setup.env to disable legacy grib plugin support. Default value is deprecated which is no change from current behavior allowing use of the legacy grib tables. Switching to future will disable support for the legacy tables allowing for a performance boost to the postgres database.

There are also two localization changes that were introduced with unified grid, the older grib versions of these files will no longer work when the gribMode is changed to future.

1. The gribModel files in common_static must be moved to edex_static.

2. All parameterInfo will need to use the gridParamInfo tag in place of gribParamInfo.

A delta script has been provided that performs this conversion automatically (upgradeGribLocalization.sh)

Release Note: DR 16210

Several Architectural changes are being made:

PyPies is moving to dx2f. Heartbeat and px1f httpd proxy updated for this change.

New awips2-ldm rpm installed on CPs will wrap both upstream and downstream functionality. /data_store will be mounted on CPs, pqact files will now be maintained on CPs, LDM was added to a2cp1apps, and LDM was removed from a2dx2apps and shut down on dx2f.

Release Note: DR 1786

AWIPS II HTTPS Thin Client Authentication for users outside the NOAA firewall. The user connected outside the NOAA firewall will be required to log in using their NOAA credentials.

Release Note: Redmine #2075

The blue status bar at the bottom of the FFMP Basin Dialog is no longer there. Instead the background loading of data is measured in the progress bar in the bottom right of CAVE, much like other parts of CAVE.

Release Note: Redmine #1999

The code used to calculate streamlines in D2D has been replaced with a Java port of the original A1 code. Due to the compressed time line in which this port was made, we've made it possible to use the previous streamline code instead, but note that this legacy behavior will be removed in OB13.6.1. If you experience issues with this new streamline code, perform the following steps to revert the streamline code:

1. Open /awips2/cave/cave.ini in a text editor.

2. Add the following line to the end of the file: -Dviz.use.legacy.streamlines=true

3. Save the file and close the editor.

You will need to restart CAVE for the changes to take effect.

Release Note: Redmine #2161

To improve modelsounding ingest times, modelsounding data is now held in the JVM for a configurable number of seconds before being persisted. The number of seconds is set in: /awips2/edex/conf/resources/com.raytheon.edex.plugin.modelsounding.properties. Setting the seconds to a higher number will improve the modelsounding ingest performance (there is a limit to how high it can be set to prevent out of memory conditions); however, if the ingest JVM is ever stopped during a model run, it is possible that a few records will be lost completely. Setting the seconds to a lower number will minimize data loss if the ingest JVM goes down; however, it will also increase the amount of time that is required to complete a single modelsounding run.

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-59

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Release Note: Redmine #1974

gfeParamName.xml was updated to remove unnecessary TPCSG_ entries (should only need TPCSG-) and change TP_XXX to tpXXX for RFC total precip

Problem: GFE: Out of memory condition resulting in missing data in ZFP

When site OAX ran the Zone Forecast Product (ZFP) in GFE, the wind data is missing. Analysis has shown that an out of memory condition on the EDEX side is resulting in this problem.

The GridParmManager in the request JVMs is never being purged since purge only runs in the ingest JVM. The memory dump showed over 2500 IFPGridDatabase objects in the dbMap. Querying distinct dbid from the gfe table in Postgres indicates there should only be about 200.

Required Behavior: Out of memory condition resulting in missing data in ZFP should not occur. **(DR 16206)**

Problem: Coastline Polygon issues

There have been three polygon issues discovered during investigation of TT 577090. First, if a certain polygon is created when Create Text is hit a NullPointerException is thrown and the SVS will not be created.

Second, illegal polygons have been able to be created however they do not cause WarnGen to stop working and as long as the bad vertex is removed the product can be created with no problems.

Third, in some case the user found hatching and polygons not matching each other when create text/warned hatched area were selected.

Required Behavior: No errors should be thrown. **(DR 16376)**

Problem: Local & Regional Warnings do not display consistently

Local and Regional Warnings (loaded in D2D under the Obs and Other Warning Displays menu) do not display consistently. When you have the Local and Regional Warnings displayed over radar data (when the radar data is loaded first) the warnings do not time match to the current radar display. At times old warnings will show up even after they have been cancelled or expired, and at times, current warnings will not display consistently from radar slice to slice. For example when using All Tilts radar display the current warnings may display for the 0.5 slice, but that same warning won't be there for the 0.9 slice, but will then show up again at the 1.3 slice. It is also inconsistent from one radar volume scan to another, for example at the 0.5 slice the warnings will show up at the 1444Z but will be gone for the 1449Z slice. Old warnings that have expired and have been gone from the Local and Regional Warnings display will occasional show up again. All of this happens from both procedures and when Local and Regional Warnings is manually loaded over radar data.

Step 1: Load All Tilts radar

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-60

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Step 2: Load Local and Regional Warnings (load in D2D under the Obs and Other Warning Displays menu).

(DR 16350)

Problem: Invalid WarnGen pop-up window

If a regular CON (not CANCON) is created more than two times an invalid pop-up is given and does not allow the user to continue to create the product. The error is similar to:3

"A multi-segment followup was created earlier for CON-KAKQ.SV.W.0085. If a new followup needs to be created for it, select another product first; then, select CON-KAKQ.SV.W.0085."

As long as the user does not create a CANCON, the CON should be able to be created as many times as necessary.

Required Behavior: No Error message should occur if no CANCON is created. **(DR 16387)**

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-61

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Appendix A. XML/base, VM, and RPM Changes in OB13.4.1

XML/base, VM Changes

cave/build/static/common/cave/etc/bundles/scan/PrecipRate.xml
cave/build/static/common/cave/etc/bundles/scan/QPF.xml
cave/build/static/common/cave/etc/bundles/scan/VIL.xml
cave/build/static/common/cave/etc/bundles/scan/scanCWAThreatIndex.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/AUTOSPE-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/AVIATION-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/AVN-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/AVN190AK-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/AVN80PAC-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/AVN80US-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CCPA-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CCPA2P5-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CCPA_US-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CMC-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CMC-streamlines.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CMC-tropical.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CMCE-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CMCE_ENS-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/CPCOUTLK80US-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/DGEX_AK-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/DGEX_US-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWFWAVE-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_AF-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_ATL-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_ATL_EQ-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_EPAC-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_EPAC_EQ-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_EU-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_NH-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_WPAC-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ECMWF_WPAC_EQ-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ESTOFS_PR-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ESTOFS_US-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/FFG_ALR-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/FFG_TIR_HIRES-standard.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/FNMOCWAVE-exp_marine.xml
cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GDAS-standard.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013　　　　A-1

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cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS-basic_wx.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS-marine.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS-monochrome.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS-precip.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS40US-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS95US-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFSGUIDE-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFSLAMPTSTORM-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS_AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS_GU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS_NH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS_PAC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GFS_PR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GOESGFS-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GRLKWAVE-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GWW-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GWW233-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/GWWP5-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_ARW_AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_ARW_E-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_ARW_GU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_ARW_HI-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_ARW_SJU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_ARW_W-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_NMM_AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_NMM_E-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_NMM_GU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_NMM_HI-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_NMM_SJU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HIRESW_NMM_W-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HPCGUIDE_AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HPCQPF-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HPCQPFNDFD-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HPC_RAIN_CAT_AK-standard.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-2

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cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/HPC_RAIN_CAT_US-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ICE12NH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ICE12SH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ICE12TH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ICE25NH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ICE25SH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/ICEP5-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MOS-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MOS_AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_ALR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_FWR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_MSR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_ORN-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_RHA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_RSA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_SJU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_STR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_TAR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_LOCAL_TUA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_MOSAIC_ALR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_MOSAIC_FWR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_MOSAIC_MSR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_MOSAIC_ORN-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_MOSAIC_RHA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_MOSAIC_SJU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MPE_MOSAIC_TAR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MRF-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MRF160HI-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MRF190AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MRF190PR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/MRF_NH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAEFS_AK-standard.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-3

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cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAEFS_BC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAEFS_US-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM-basic_wx.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM11AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM12_CNTRL_US-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM20-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM22AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM32PR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM45AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM80-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAM95AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAMDNG5-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAMDNG5_AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAMDNG5_HI-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAMDNG5_PR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NAMNEST_HI-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NMM40-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NOGAPS-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NOGAPS-surface.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NOHRSC_SNOW-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NWW3-exp_marine.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/NWW3-marine.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/OFSGMEX-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/OFSWATL-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/OPCWAVE12_ATL-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/OPCWAVE12_NPAC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/OPCWAVE12_SPAC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/PROB3HR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_AUTO_TUA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_RFC_PTR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_RFC_RSA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_RFC_STR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_ALR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_FWR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_KRF-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_MSR-standard.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-4

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cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_ORN-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_RHA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_SJU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_TAR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_TIR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/QPE_XNAV_TUA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RAP-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RAP32-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RAP40-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RCM-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RFCQPF-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RTGSST-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RTGSSTHR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RTMA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RTMA_AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RTMA_GU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RTMA_HI-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/RTMA_PR-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/SPCGUIDE-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/SREF2P5-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/SREF40-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/SREF45-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/TPC_WIND_PROB-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKENS_ASIA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKENS_CPAC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKENS_NA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKENS_NH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_ASIA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_AU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_CPAC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_EU-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_NA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_NH-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_SA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_SAF-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/UKMET_SPAC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE10AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE10AK_2-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE10EP-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE10EP_2-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE10WC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE10WC_2-standard.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-5

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cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE10WNA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE10WNA_2-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE2AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE30MAO-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE30MGLOBAL-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE4AK-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE4AK_2-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE4ENP-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE4ENP_2-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE4WC-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE4WC_2-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE4WNA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVE4WNA_2-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVEP25WNA-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/ModelFcstGridContours/WAVEP25WNA_2-standard.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/GOES15-SXI-FM3-ALL.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/NSO-GONG-ALL.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/SDO-AIA-ALL.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/SDO-HMI-SIDE1-ALL.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/SDO-THEMETIC.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/SOHO-EIT-ALL.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/SOHO-LASCO-C2.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/SOHO-LASCO-C3.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/STEREO-A-COR2.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/STEREO-A-EUVI.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/STEREO-A-HI1.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/STEREO-A-HI2.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/STEREO-B-COR2.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/STEREO-B-EUVI.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/STEREO-B-HI1.xml

cave/build/static/common/cave/etc/ncep/AttributeSetGroups/SolarImage/STEREO-B-HI2.xml

cave/build/static/common/cave/etc/ncep/ColorBars/SolarImage/dfltSolarImageColorBar.xml

cave/build/static/common/cave/etc/ncep/DefaultRBDs/defaultRBD.xml

cave/build/static/common/cave/etc/ncep/PlotModels/PlotParameters/plotParameters_bufrmosAVN.xml

cave/build/static/common/cave/etc/ncep/PlotModels/PlotParameters/plotParameters_bufrmosETA.xml

cave/build/static/common/cave/etc/ncep/PlotModels/PlotParameters/plotParameters_bufrmosGFS.xml

cave/build/static/common/cave/etc/ncep/PlotModels/PlotParameters/plotParameters_bufrmosGFSX.xml

cave/build/static/common/cave/etc/ncep/PlotModels/PlotParameters/plotParameters_bufrmosHPC.xml

cave/build/static/common/cave/etc/ncep/PlotModels/PlotParameters/plotParameters_bufrmosLAMP.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosAVN/standard.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosETA/standard.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosGFS/standard.xml

cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosHPC/standard.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-6

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cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosLAMP/standard.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/12hrpop.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/anom_mm.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/cli_all.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/cli_hpc.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/climo_mm.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/dewpoint_hpc.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/max_anom.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/max_mm.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/maxminpop.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/maxminpop_an.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/min_anom.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/min_mm.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/mos_anom_mm.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/pop12_mm.xml
cave/build/static/common/cave/etc/ncep/PlotModels/bufrmosMRF/pop24_mm.xml
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cave/build/static/common/cave/etc/ncep/ResourceDefns/ENSEMBLE/GEFS_ENS.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/ENSEMBLE/GFS_ENS.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/ENSEMBLE/NAM_00.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/AUTOSPE/AUTOSPE.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/AVIATION/AVIATION.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/AVN/AVN.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/AVN190AK/AVN190AK.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/AVN80PAC/AVN80PAC.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/AVN80US/AVN80US.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/CCPA/CCPA.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/CCPA2P5/CCPA2P5.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/CCPA_US/CCPA_US.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/CMC/CMC.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/CMCE/CMCE.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/CMCE_ENS/CMCE_ENS.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/CPCOUTLK80US/CPCOUTLK80US.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/DGEX_AK/DGEX_AK.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/DGEX_US/DGEX_US.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/ECMWF/ECMWF.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/ECMWFG/ECMWFG.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/ECMWFT/ECMWFT.xml
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cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/ECMWF_AF/ECMWF_AF.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/GRID/ECMWF_ATL/ECMWF_ATL.xml
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Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-8

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Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013

A-9

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Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-11

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cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/ECENS_AVGSPR_NT/ECENS_AVGSPR_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/ECENS_NT/ECENS_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/ECMWFVER_NT/ECMWFVER_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/ECMWF_HR_NT/ECMWF_HR_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/ECMWF_NT/ECMWF_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/ENSVER_NT/ENSVER_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/FNMOCWAVE_NT/FNMOCWAVE_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/GDAS_NT/GDAS_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/GEFS_AVGSPR_NT/GEFS_AVGSPR_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/GEFS_NT/GEFS_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/GFSP_NT/GFSP_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/GFSVERP_NT/GFSVERP_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/GFSVER_NT/GFSVER_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/GFS_NT/GFS_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/GHM_NT/GHM_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/HPCQPF_NT/HPCQPF_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/HPCVER_NT/HPCVER_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/HWRF_NT/HWRF_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/ICEACCR_NT/ICEACCR_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/JMAP_NT/JMAP_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/MEDRT_NT/MEDRT_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/NAEFS_NT/NAEFS_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/NAM20_NT/NAM20_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/NAM44_NT/NAM44_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/NAMVER_NT/NAMVER_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/NAM_NT/NAM_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/NOGAPS_NT/NOGAPS_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/NWW3P_NT/NWW3P_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/NWW3_NT/NWW3_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/OPC_ENS_NT/OPC_ENS_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/RAPP_NT/RAPP_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/RAP_NT/RAP_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/SREFX_NT/SREFX_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/SST_NT/SST_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/UKMETVER_NT/UKMETVER_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/UKMET_NT/UKMET_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/NTRANS/VAFTAD_NT/VAFTAD_NT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/88Ds/88Ds.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/AirmetCstl/AirmetCstl.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Airways/Airways.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-12

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cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/AkPsa/AkPsa.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/AtlanticFullBasin/AtlanticFullBasin.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/BWUS/BWUS.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/BWUSLabel/BWUSLabel.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/BWX1224/BWX1224.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/CPCUS/CPCUS.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/CWAs/CWAs.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Carrfa/Carrfa.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Ccfcan/Ccfcan.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Counties/Counties.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/DwmStns/DwmStns.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/EnhArea/EnhArea.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/FAArea/FAArea.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/FAAreaX/FAAreaX.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/FARegion/FARegion.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/FireBnds/FireBnds.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/FireWxAOR/FireWxAOR.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/GeoPolitical/GeoPolitical.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/GfaConus/GfaConus.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/GreatLakes/GreatLakes.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/HCN/HCN.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Hifiwo/Hifiwo.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/HighSeasZones/HighSeasZones.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Interstates/Interstates.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Lakes/Lakes.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/LatLon/LatLon.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Locator/Locator.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/MarineCounty/MarineCounty.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/NHCOffshoreAtlZones/NHCOffshoreAtlZones.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/NPsa/NPsa.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/OPCOffshoreAtlZones/OPCOffshoreAtlZones.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/OPCOffshorePacZones/OPCOffshorePacZones.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PFZ/PFZ.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PacificFullBasin/PacificFullBasin.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/ARTCC/ARTCC.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/ElevNam1000/ElevNam1000.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/FirBnds/FirBnds.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/GulfFa/GulfFa.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/HPC050Med/HPC050Med.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/HPCSFC/HPCSFC.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/IcaoAreas/IcaoAreas.xml
cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/IcaoUkAreas/IcaoUkAreas.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/IcaoUkMidlvl/IcaoUkMidlvl.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/IcaoUsMidlvl/IcaoUsMidlvl.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/IntlSigmetAreas/IntlSigmetAreas.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/MWO/MWO.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/OPCBNDS/OPCBNDS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/OPCNomex/OPCNomex.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/SSA/SSA.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/TPC/TPC.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/UA/UA.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/VAACAR/VAACAR.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/WST/WST.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/PgenXmlOverlay/World/World.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Rivers/Rivers.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/SPCOutlook/SPCOutlook.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Scale/Scale.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/SfcStns/SfcStns.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/States/States.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/TimeZones/TimeZones.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/TropFirs/TropFirs.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Tweb/Tweb.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/USAK/USAK.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/VORs/VORs.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/VolcanoNames/VolcanoNames.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/Volcanos/Volcanos.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/WFOs/WFOs.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/WrZones/WrZones.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/countyCluster/countyCluster.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/countyNames/countyNames.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/cpcStations/cpcStations.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/rfcBoundaries/rfcBoundaries.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/snapPoints/snapPoints.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/spcwatch/spcwatch.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/OVERLAYS/wrqpf/wrqpf.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/Atlantic_Wind_Wave/Atlantic_Wind_Wave.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/CCFP/CCFP.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/CONV_SIGMET/CONV_SIGMET.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/Convective_Outlook/Convective_Outlook.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/Extended_Range/Extended_Range.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/G_AIRMET/G_AIRMET.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/HPC_Basic_WX/HPC_Basic_WX.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/HPC_QPF/HPC_QPF.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/Hazard_Outlook/Hazard_Outlook.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/International_Sigmet/International_Sigmet.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-14

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cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/NONCONV_SIGMET/NONCONV_SIGMET.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/SIGWX_High/SIGWX_High.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/SIGWX_Medium/SIGWX_Medium.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/Sample/Sample.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/Surface_Analysis/Surface_Analysis.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/PGEN/Volcano/Volcano.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/RADAR/LocalRadar/LocalRadar.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/RADAR/NatlMosaic/NatlMosaic.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/ResourceFilters.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/DPD/DPD.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/FYC/FYC.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_Composite/GINI_Composite.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_DMSP/GINI_DMSP.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_ERS-QuickSCAT-Scatterometer/GINI_ERS-QuickSCAT-Scatterometer.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GMS/GINI_GMS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GOES10/GINI_GOES10.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GOES11/GINI_GOES11.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GOES12/GINI_GOES12.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GOES13/GINI_GOES13.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GOES15/GINI_GOES15.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GOES7/GINI_GOES7.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GOES8/GINI_GOES8.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_GOES9/GINI_GOES9.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_JERS/GINI_JERS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_METEOSAT/GINI_METEOSAT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_Miscellaneous/GINI_Miscellaneous.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_NOAA16/GINI_NOAA16.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_NOAA17/GINI_NOAA17.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_NOAA18/GINI_NOAA18.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_NOAA19/GINI_NOAA19.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GINI_POES-NPOESS/GINI_POES-NPOESS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GMS/GMS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES10/GOES10.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES11/GOES11.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES12/GOES12.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES13/GOES13.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES15/GOES15.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES6/GOES6.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES7/GOES7.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES8/GOES8.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/GOES9/GOES9.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/Global/Global.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/IND/IND.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/METEOSAT10/METEOSAT10.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/METEOSAT3/METEOSAT3.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/METEOSAT5/METEOSAT5.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/METEOSAT6/METEOSAT6.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/METEOSAT7/METEOSAT7.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/METEOSAT8/METEOSAT8.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/METEOSAT9/METEOSAT9.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/MTS/MTS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/MTSAT2/MTSAT2.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SATELLITE/VAAC/VAAC.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/GOES15-SXI-FM3/GOES15-SXI-FM3.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/NSO-GONG/NSO-GONG.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/SDO-AIA/SDO-AIA.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/SDO-HMI-SIDE1/SDO-HMI-SIDE1.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/SOHO-EIT/SOHO-EIT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/SOHO-LASCO-C2/SOHO-LASCO-C2.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/SOHO-LASCO-C3/SOHO-LASCO-C3.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/STEREO-A-COR2/STEREO-A-COR2.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/STEREO-A-EUVI/STEREO-A-EUVI.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/STEREO-A-HI1/STEREO-A-HI1.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/STEREO-A-HI2/STEREO-A-HI2.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/STEREO-B-COR2/STEREO-B-COR2.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/STEREO-B-EUVI/STEREO-B-EUVI.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/STEREO-B-HI1/STEREO-B-HI1.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SOLARIMAGE/STEREO-B-HI2/STEREO-B-HI2.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/AVNMOS/AVNMOS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/ETAMOS/ETAMOS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/FFG/FFG.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSMOS/GFSMOS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/GFSXMOS/GFSXMOS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/HPCMOS/HPCMOS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/IDFT/IDFT.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/LAMPMOS/LAMPMOS.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/METAR/METAR.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/PAFM/PAFM.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/SCD/SCD.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/SHIP/SHIP.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/SYNOP/SYNOP.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/SURFACE/TAF/TAF.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/UPPER_AIR/AIREP/AIREP.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/UPPER_AIR/NAMSND/NAMSND.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/UPPER_AIR/PIREP/PIREP.xml

cave/build/static/common/cave/etc/ncep/ResourceDefns/UPPER_AIR/UAIR/UAIR.xml

cave/build/static/common/cave/etc/ncep/nsharp/nsharpConfig.xml

cave/com.raytheon.uf.viz.derivparam/localization/derivedParameters/definitions/CapeStk.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-16

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cave/com.raytheon.uf.viz.npp.crimss/localization/menus/npp/crimss/crimssMenuItems.xml
cave/com.raytheon.uf.viz.npp.crimss/localization/menus/npp/crimss/index.xml
cave/com.raytheon.uf.viz.npp.nucaps/localization/menus/npp/nucaps/index.xml
cave/com.raytheon.uf.viz.npp.nucaps/localization/menus/npp/nucaps/nucapsMenuItems.xml
cave/com.raytheon.uf.viz.npp.sounding/localization/bundles/npp/soundingAvailability.xml
cave/com.raytheon.uf.viz.npp.viirs/localization/menus/npp/viirs/index.xml
cave/com.raytheon.uf.viz.npp.viirs/localization/menus/npp/viirs/viirsMenuItems.xml
cave/com.raytheon.uf.viz.npp/localization/menus/npp/index.xml
cave/com.raytheon.uf.viz.npp/localization/menus/npp/nppMenuItems.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/AUTOSPE.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/AVIATION.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/AVN.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/AVN190AK.xml
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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/FNMOCWAVE.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GDAS.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GEFS.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-17

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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GEFS_ENS.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFS.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFS40US.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFS95US.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFSGUIDE.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFSLAMPTSTORM.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFS_AK.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFS_GU.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFS_NH.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GFS_PAC.xml

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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GHM.xml

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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/GWWP5.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/HIRESW_ARW_AK.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/HIRESW_ARW_E.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/HIRESW_ARW_GU.xml

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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/RFCQPF.xml

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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/RTMA.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/RTMA_AK.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/RTMA_GU.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/RTMA_HI.xml

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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/SPCGUIDE.xml

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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKENS_ASIA.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKENS_CPAC.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKENS_NA.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKENS_NH.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_ASIA.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_AU.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_CPAC.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_EU.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_NA.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_NH.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_SA.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_SAF.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/UKMET_SPAC.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE10AK.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE10AK_2.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE10EP.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE10EP_2.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE10WC.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE10WC_2.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE10WNA.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE10WNA_2.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE2AK.xml

edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE30MAO.xml

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-21

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edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE30MGLOBAL.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE4AK.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE4AK_2.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE4ENP.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE4ENP_2.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE4WC.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE4WC_2.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE4WNA.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVE4WNA_2.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVEP25WNA.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/ncep/hold/NcInventoryDefinitions/WAVEP25WNA_2.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/VM_global_library.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/airportWeatherWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/airportWeatherWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodAdvisory.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodAdvisory.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodAdvisoryFollowup.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodAdvisoryFollowup.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodAdvisoryFollowup_Zones.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodAdvisoryFollowup_Zones.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodAdvisory_Zones.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodAdvisory_Zones.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodWarningFollowup.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodWarningFollowup.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodWarningFollowup_Zones.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/arealFloodWarningFollowup_Zones.xml
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edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/burnScarFlashFloodWarning.vm
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edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/burnScarInfoBullet.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/burnScarInfoBulletName.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/damInfo.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/damInfoBullet.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/damInfoBulletName.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/dupCounties.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/extremeWindWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/extremeWindWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/extremeWindWarningFollowup.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/extremeWindWarningFollowup.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/fireWarning.vm

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-22

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edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/fireWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/flashFloodWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/flashFloodWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/flashFloodWarningFollowup.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/flashFloodWarningFollowup.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/flashFloodWarningFollowup_Zones.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/flashFloodWarningFollowup_Zones.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/flashFloodWarning_Zones.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/flashFloodWarning_Zones.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/impactSevereThunderstormWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/impactSevereThunderstormWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/impactSevereWeatherStatement.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/impactSevereWeatherStatement.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/impactStatements.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/impactTornadoWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/impactTornadoWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/marineWeatherStatement.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/marineWeatherStatement.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/marineWeatherStatementAshfall.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/marineWeatherStatementAshfall.xml
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Zones.vm
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nes.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/nonConvectiveFlashFloodWarning_Zones.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/nonConvectiveFlashFloodWarning_Zones.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/pointMarkers.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/pointMarkers.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/severeThunderstormWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/severeThunderstormWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/severeWeatherStatement.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/severeWeatherStatement.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/shortTermForecast.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/shortTermForecast.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/significantWeatherAdvisory.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/significantWeatherAdvisory.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/specialMarineWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/specialMarineWarning.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/specialMarineWarningFollowup.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/specialMarineWarningFollowup.xml
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/specialWeatherStatement.vm
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edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/tornadoWarning.vm
edexOsgi/build.edex/esb/data/utility/common_static/base/warngen/tornadoWarning.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/common_static/base/grid/grib1ParameterConvTable.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/grids/ensemble-met.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/grids/estofsPR.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/grids/estofsUS.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/grids/grid132.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/grids/grid172_sp.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/grids/grid220_sp.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/grids/grid407.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/grids/seaiceP5.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/models/GribModels_FNMO-58.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/models/gribModels_ECMWF-98.xml

edexOsgi/com.raytheon.edex.plugin.grib/utility/edex_static/base/grib/models/gribModels_NCEP-7.xml

edexOsgi/com.raytheon.edex.plugin.modelsounding/utility/common_static/base/path/modelsoundingPathKeys.xml

edexOsgi/com.raytheon.edex.plugin.obs/utility/common_static/base/purge/obsPurgeRules.xml

edexOsgi/com.raytheon.edex.plugin.sfcobs/utility/common_static/base/purge/sfcobsPurgeRules.xml

edexOsgi/com.raytheon.edex.plugin.textlightning/utility/edex_static/base/distribution/textlightning.xml

edexOsgi/com.raytheon.uf.common.dataplugin.ffmp/utility/common_static/base/stats/ffmpStats.xml

edexOsgi/com.raytheon.uf.common.dataplugin.level/utility/common_static/base/level/alias/gempak.xml

edexOsgi/com.raytheon.uf.common.parameter/utility/common_static/base/parameter/alias/gempak.xml

edexOsgi/com.raytheon.uf.edex.datadelivery.retrieval/utility/common_static/base/stats/retrievalProcessStats.xml

edexOsgi/com.raytheon.uf.edex.plugin.npp.nucaps/utility/edex_static/base/distribution/nucaps.xml

edexOsgi/com.raytheon.uf.edex.registry.ebxml/utility/common_static/base/stats/registryProcessStats.xml

edexOsgi/com.raytheon.uf.edex.stats/utility/common_static/base/stats/edexProcessStats.xml

ncep/gov.noaa.nws.ncep.edex.plugin.geomag/utility/common_static/base/ncep/geomag/geoMagStations.xml

ncep/gov.noaa.nws.ncep.edex.plugin.geomag/utility/common_static/base/purge/geomagPurgeRules.xml

ncep/gov.noaa.nws.ncep.edex.plugin.geomag/utility/edex_static/base/distribution/geomag.xml

ncep/gov.noaa.nws.ncep.edex.plugin.ntrans/utility/common_static/base/path/ntransPathKeys.xml

ncep/gov.noaa.nws.ncep.edex.plugin.pgen/utility/common_static/base/purge/pgenPurgeRules.xml

ncep/gov.noaa.nws.ncep.edex.plugin.pgen/utility/edex_static/base/distribution/pgen.xml

ncep/gov.noaa.nws.ncep.edex.plugin.solarimage/utility/common_static/base/purge/solarimagePurgeRules.xml

ncep/gov.noaa.nws.ncep.ui.pgen/localization/ncep/pgen/gfa.xml

ncep/gov.noaa.nws.ncep.ui.pgen/localization/ncep/pgen/outlooksettings.xml

ncep/gov.noaa.nws.ncep.ui.pgen/localization/ncep/pgen/outlooktype.xml

ncep/gov.noaa.nws.ncep.viz.gempak/localization/ncep/GempakGridUnits/gempakGridParmeterUnits.xml

ncep/gov.noaa.nws.ncep.viz.gempak/localization/ncep/GempakGridUnits/gempakGridVcrdUnits.xml

ncep/gov.noaa.nws.ncep.viz.overlays/localization/ncep/resourceTemplates/OverlayGroup.xml

ncep/gov.noaa.nws.ncep.viz.rsc.ntrans/localization/ncep/resourceTemplates/NTRANS.xml

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/localization/ncep/resourceTemplates/SolarImage.xml

ncep/gov.noaa.nws.ncep.viz.rsc.solarimage/localization/ncep/styleRules/solarImageryStyleRules.xml

RPM Changes

DX3/4/5/6: EDEX

DX1: postgres, rcm, pypies (moved to dx2f in 13.4.1)

DX2: LDM (no longer running on dx2 in 13.4.1)

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013

A-24

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cp1f: qpid (note: qpid runs on px1f at sites with remote CPSBNs), LDM

awips2-adapt-native-13.4.1-27.i386.rpm
awips2-alertviz-13.4.1-27.i386.rpm
awips2-cave-13.4.1-27.i386.rpm
awips2-cave-etc-13.4.1-27.i386.rpm
awips2-cave-viz-avnfps-13.4.1-27.i386.rpm
awips2-cave-viz-collaboration-13.4.1-27.i386.rpm
awips2-cave-viz-common-core-13.4.1-27.i386.rpm
awips2-cave-viz-core-13.4.1-27.i386.rpm
awips2-cave-viz-core-maps-13.4.1-27.i386.rpm
awips2-cave-viz-cots-13.4.1-27.i386.rpm
awips2-cave-viz-d2d-core-13.4.1-27.i386.rpm
awips2-cave-viz-d2d-gfe-13.4.1-27.i386.rpm
awips2-cave-viz-d2d-nsharp-13.4.1-27.i386.rpm
awips2-cave-viz-d2d-skewt-13.4.1-27.i386.rpm
awips2-cave-viz-d2d-xy-13.4.1-27.i386.rpm
awips2-cave-viz-dat-13.4.1-27.i386.rpm
awips2-cave-viz-dataaccess-13.4.1-27.i386.rpm
awips2-cave-viz-datadelivery-13.4.1-27.i386.rpm
awips2-cave-viz-dataplugin-obs-13.4.1-27.i386.rpm
awips2-cave-viz-dataplugins-13.4.1-27.i386.rpm
awips2-cave-viz-displays-13.4.1-27.i386.rpm
awips2-cave-viz-gfe-13.4.1-27.i386.rpm
awips2-cave-viz-gisdatastore-13.4.1-27.i386.rpm
awips2-cave-viz-grib-13.4.1-27.i386.rpm
awips2-cave-viz-hydro-13.4.1-27.i386.rpm
awips2-cave-viz-hydro-13.4.1-4.i386.rpm
awips2-cave-viz-kml-export-13.4.1-27.i386.rpm
awips2-cave-viz-kml-export-13.4.1-4.i386.rpm
awips2-cave-viz-localization-perspective-13.4.1-27.i386.rpm
awips2-cave-viz-ncep-core-13.4.1-27.i386.rpm
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awips2-cave-viz-ncep-displays-13.4.1-27.i386.rpm
awips2-cave-viz-ncep-nsharp-13.4.1-27.i386.rpm
awips2-cave-viz-ncep-perspective-13.4.1-27.i386.rpm
awips2-cave-viz-npp-13.4.1-27.i386.rpm
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awips2-cave-viz-sounding-13.4.1-27.i386.rpm
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awips2-cave-viz-thinclient-13.4.1-27.i386.rpm
awips2-cave-viz-useradmin-13.4.1-27.i386.rpm
awips2-cave-viz-volumebrowser-13.4.1-27.i386.rpm
awips2-cave-viz-warngen-13.4.1-27.i386.rpm
awips2-edex-base-13.4.1-23.i386.rpm
awips2-edex-bufr-13.4.1-8.i386.rpm
awips2-edex-common-core-13.4.1-19.i386.rpm
awips2-edex-core-13.4.1-19.i386.rpm
awips2-edex-cots-13.4.1-4.i386.rpm
awips2-edex-dat-13.4.1-26.i386.rpm
awips2-edex-datadelivery-13.4.1-13.i386.rpm
awips2-edex-datadelivery-client-13.4.1-13.i386.rpm
awips2-edex-dataplugins-13.4.1-27.i386.rpm
awips2-edex-event-13.4.1-13.i386.rpm

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013　　　　　A-25

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awips2-edex-gfe-13.4.1-19.i386.rpm
awips2-edex-grib-13.4.1-10.i386.rpm
awips2-edex-hydro-13.4.1-14.i386.rpm
awips2-edex-native-13.4.1-27.i386.rpm
awips2-edex-ncep-13.4.1-25.i386.rpm
awips2-java-1.6.0_43-1.i386.rpm
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awips2-notification-13.4.1-14.i386.rpm
awips2-perl-DBD-Pg-2.9.3-1.i386.rpm
awips2-postgresql-9.2.4-1.i386.rpm
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awips2-qpid-server-0.7.946106-33.11.9.i386.rpm
awips2-qpid-client-0.7.946106-33.11.9.i386.rpm
awips2-rcm-13.4.1-14.i386.rpm
qpid-cpp-client-devel-docs-0.7.946106-28.el5.centos.1.i386.rpm
qpid-cpp-client-devel-0.7.946106-28.el5.centos.1.i386.rpm
qpid-cpp-client-0.7.946106-28.el5.centos.1.i386.rpm
wxGTK-2.8.12-1.el5.rf.i386.rpm
wxGTK-devel-2.8.12-1.el5.rf.i386.rpm
awips2-13.4.1-27.noarch.rpm
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awips2-database-server-configuration-13.4.1-7.noarch.rpm
awips2-database-standalone-configuration-13.4.1-7.noarch.rpm
awips2-data.hdf5-gfe.climo-13.4.1-14.noarch.rpm
awips2-data.hdf5-topo-13.4.1-14.noarch.rpm
awips2-edex-configuration-13.4.1-7.noarch.rpm
awips2-edex-environment-13.4.1-4.noarch.rpm
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awips2-localization-TBW-13.4.1-1.noarch.rpm
awips2-maps-database-13.4.1-4.noarch.rpm
awips2-ncep-database-13.4.1-7.noarch.rpm
awips2-python-dynamicserialize-13.4.1-17.noarch.rpm
awips2-python-ufpy-13.4.1-16.noarch.rpm
awips2-qpid-java-broker-0.18-1.noarch.rpm
awips2-qpid-java-example-0.18-1.noarch.rpm
awips2-qpid-java-common-0.18-1.noarch.rpm
awips2-qpid-java-client-0.18-1.noarch.rpm
awips2-alertviz-13.4.1-27.x86_64.rpm
awips2-cave-13.4.1-27.x86_64.rpm
awips2-cave-etc-13.4.1-27.x86_64.rpm
awips2-cave-viz-avnfps-13.4.1-27.x86_64.rpm
awips2-cave-viz-collaboration-13.4.1-27.x86_64.rpm
awips2-cave-viz-common-core-13.4.1-27.x86_64.rpm

Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013

A-26

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awips2-cave-viz-core-13.4.1-27.x86_64.rpm
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awips2-cave-viz-localization-perspective-13.4.1-27.x86_64.rpm
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awips2-cave-viz-text-13.4.1-27.x86_64.rpm
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awips2-cave-viz-useradmin-13.4.1-27.x86_64.rpm
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Contract DG133W-05-CQ-1067 / DCN AWP.RLSN.OB13.4.1-01.00 / 31 July 2013   A-27

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