

OHD Utility Scripts

The following scripts are optional. They are used to either modify existing FEWS configurations or create new ones for OHD-CORE-CHPS functionality.

OHD Utility Scripts.....	1
1 Configuration Update Scripts.....	2
1.1 FFH Cleanup Script.....	2
1.2 Performance Optimization Script.....	3
1.3 Cleanup Parameters for Models ported to Java.....	4
2 FFG Migration Scripts.....	6
2.1 Getting Started: Files Needed.....	6
2.2 Using “createNwsrfsPunchFile or fcinit**” to extract segments.....	6
2.3 Using “ffguid” to extract parameters.....	6
2.4 Using PRODGEN to extract parameters.....	8
2.5 Am I ready to run the FFG migration scripts?.....	9
2.6 Running the FEWS-FFG migration script.....	11
2.7 What to expect after running FFG migration script.....	13
2.8 Viewing output display.....	16
2.9 Migration setting properties for FFH Configuration.....	17
2.10 Migration setting properties for PRODGEN Cofiguration	18
2.11 Migration Setting properties for GriddedFFG	20

1 Configuration Update Scripts

OHD is delivering 3 scripts to modify the RFC's configurations.

- *ffhCleanup.bash*
- *optimization.bash*
- *javaModelParamsCleanup.bash*

The *ffhCleanup.bash* script is for RFCs who previously received a working FFH configuration from OHD (NERFC, ABRFC, LMRFC, and WGRFC).

The *optimization.bash* script is **for all RFCs with a stable configuration.**

The *javaModelParamsCleanup.bash* script is for RFCs that use MUSKROUT, RSNWELEV, and/or TATUM

OHD recommends running the scripts against an SA configuration and then testing to make sure the workflows still work after running the script. If so, the OC's configuration can be updated.

1.1 FFH Cleanup Script

1.1.1 Introduction

The existent FFH configuration contains the FFH and FFHMERGE configuration modules, the FFHMERGE configuration module merges 1, 3, 6, 12 and 24 time series into a single non-equidistant time series per location.

For a simpler configuration and potentially improving FFH performance, all the FFGMERGE modules will be eliminated. The new FFH module configuration will create a single non-equidistant time series the FFHMERGE is not needed. The FFH clean up script will remove all the FFHMERGE modules from the current SA without altering non-related FFH configuration.

1.1.2 How to run the script

Untar the file `scripts-package.OHD-CORE-CHPS-2.0.b.20110615.tar.gz`. This will create a directory named "ffhcleanup/scripts" containing the script

Run the scripts at the Config directory level. For example:

```
cd /awips/chpshome/chuir/ncrfc_sa  
(path_of_ffhCleanup.bash scripts)/ffhCleanup.bash Config > screenCatch.txt  
2>&1
```

Config directory will be updated as below,

1.1.3 Configuration updates

1. all FFHMERGE modules in Config/RegionConfigFiles/ModuleInstanceSets are removed
2. all FFHMERGE modules in Config/ModuleConfigFiles/ffh are removed
3. all FFHMERGE modules in Config/Workflowfiles/ffh are removed

1.2 Performance Optimization Script

1.2.1 Introduction

The purpose of this script (optimization.bash) is to **improve performance at runtime in CHPS** by replacing the timeSeriesType for Time Series which do not need to be stored in the database with the timeSeriesType of temporary in their module's configuration. Changing the timeSeriesType from a permanent type such as "simulated forecasting" to "temporary" will reduce disk I/O usage and disk space and result in faster computation and synchronization.

This script will scan through an RFC's configuration directories and **change the timeSeriesType to temporary** for Time Series generated by a CHANGET, SETTS, DELTATS, WEIGHTS or ADDSUB operation unless they are found in a moduleInstanceId listed in the ModuleInstanceSets.xml, Filters.xml, Display-Groups.xml, SpatialDisplay.xml or any SHEF_Export.xml or ESPADP related xml configuration file.

It is suggested that an RFC use this script on their test Standalone (SA) system and **run for one operation type at a time** and test that the changes to temporary timeSeriesType does not cause any errors.

1.2.2 How to run the optimization script

Untar scripts package. This will create a directory named "optimization/scripts" containing the script

1. Set up

Create a configuration file similar to the one shown below. Give it a file-name such as *operationTypes.txt*:

Note: All variables and values are case sensitive.

RFCDir=/awips/chpshome/chuir/ncrfc_sa

operationTypes="ADDSUB"

replacement=temporary

DEBUG=NO

- RFCDir= is the RFC top directory, it can be an absolute path or a relative path to the SA directory
- operationTypes= is a list one or more operation types within a pair of double quotes separated by a space. The following operation types are valid: ="CHANGET SETTS DELTATS WEIGHTS ADDSUB"
- replacement= is the replacement string to be used for the timeSeriesType. Valid values are "temporary", "external forecasting", "external historical", "simulated forecasting", or "simulated historical".
- DEBUG= is optional, by default it is set to NO. Only set it to YES when a developer is running in debug mode.

Fields shown with an * are required.

2. Running the script

```
cd ../optimization/scripts
```

```
/optimization.bash configuration_file > redirect_output 2>&1
```

Example:

```
./optimization.bash ../setting/operationTypes.txt > screenCapture.txt 2>&1
```

Runs range from 15 minutes to 3 hours.

1.3 Cleanup Parameters for Models ported to Java

1.3.1 Introduction

The purpose of this scripts is for get rid the OPERATION_CONTENTS in the parameter XML file.

1.3.2 How to run the optimization script

1. Set up

Create a setting text file (i.e. operationTypes.txt), define the variable and value pairs:

- RFCDir=/awips/chpshome/chuir/ncrfc_sa

Defined a RFC top directory, it can be an absolute path or a relative path to the scripts directory

- operationTypes=" TATUM MUSKROUT RSNWELEV"

List one or more than two operation types between a pair of double quotes separated by a space.

- DEBUG=NO

This is optional, by default it always set to NO. Only set it to YES when a developer doing debugging mode.

2. Run the script

```
./javaModelParamsCleanup.bash theSettingFile.txt > screenCatchFile.txt  
2>&1
```

Exmample:

```
./javaModelParamsCleanup.bash ../setting/operationTypes.txt >  
screenCatch_ncrfc.txt 2>&1
```

3. Known Limitations

Can't handle case where an moduleInstanceSet id in the DisplayGroups file does not contain the opname (e.g. ADDSUB, MERGE, ..). For example at APRFC, *"we specify an SQIN moduleInstanceSet in the DisplayGroups file. In that SQIN moduleInstanceSet (in the ModuleInstanceSets file) you will see numerous ADDSUB moduleInstanceIds."*

2 FFG Migration Scripts

2.1 Getting Started: Files Needed

The FFG (FFH and Gridded FFG) migration scripts require several NWSRFS “punch” files. Here’s a list

1. segment definitions (for FFH and Gridded FFG)
2. headwater parameters (for FFH)
3. user control parameters (for FFH and Gridded FFG)
4. runoff adjustment for grid parameters (for Gridded FFG)
5. area parameters (for Gridded FFG)
6. group of product parameters (for FFH and Gridded FFG products)
7. product parameters (for FFH and Gridded FFG products)
8. text parameters (for FFH and Gridded FFG products)
9. 1, 3, 6, 12 (optional), and 24 (optional) hour Gridded Threshold Runoff XMRGs

Notes:

- #1 is created using “createNwsrfsPunchFile”
- #2 - #5 are created using “ffguid”
- #6 - #8 are created using “prodgen”

2.2 Using “createNwsrfsPunchFile or fcinit**” to extract segments

- Same as done for migration of models – you can use the same segment file used to migrate the models.
** FFG migration does not require using createNwsrfsPunchFile; using fcinit is OK; If the punchfile you used to migrate the models already has the FFG operations in it you can just use that file **

2.3 Using “ffguid” to extract parameters

- o Run ffguid using ffg script

ffg -p fguid

shows the following screen

```
ERROR ON
LOGFILE OFF

      COMPUTATIONS MENU

      C - Compute all
        Or separately:
          A - Area FFG
          G - Gridded FFG
          H - Headwater FFG
          V - Carryover Transfer
          W - Water Supply Guidance
      O - One identifier run
      Q - Quit program
      S - Setup Menu

Select (<return>-exit): █
```

2.3.1 headwater parameters

- a. Press S – Setup Menu →H – Headwaters →I - list→ to dump out headwater parameters
- b. enter an output file name (relative to where you are running this)
- c. select a number to start from (default is 1 – type <return>) then number to end at (default is MAX – type <return>) – **use defaults**
- d. file is created
- e. select <return> twice to go back to screen shown above

2.3.2 user control parameters

- a. Press S – Setup Menu →U – User Controls →I - list→ to dump out parameters
- b. enter an output file name (relative to where you are running this)
- c. select <return> twice to go back to screen shown above

2.3.3 runoff adjustment for grid parameters*

- a. Press S – Setup Menu →R – Runoff Adjust for Grids →I - list→ to dump out parameters
- b. enter an output file name (relative to where you are running this)
- c. select a number to start from (default is 1 – type <return>) then number to end at (default is MAX – type <return>) – **use defaults**
- d. select <return> twice to go back to screen shown above

* Note: not all RFCs have these parameters. The last time we looked MARFC, MBRFC, NERFC, and NCRFC had them

2.3.4 area parameters

- a. Press S – Setup Menu →A – Areas →I - list→ to dump out parameters
- b. enter an output file name (relative to where you are running this)
- c. select a number to start from (default is 1 – type <return>) then number to end at (default is MAX – type <return>) – **use defaults**
- d. select <return> twice to go back to screen shown above

2.4 Using PRODGEN to extract parameters

- o Run ffguid using ffg script

ffg -p prodgen

shows the following screen

```
ERROR ON
LOGFILE OFF

PRODUCT GENERATION MENU
un-exi      exists      /fs/hseb/rfclx/rfc/nwsrfs/ffg/files/test/leecr/grpp/index
un-opn 24    seq on        /fs/hseb/rfclx/rfc/nwsrfs/ffg/files/test/leecr/grpp/index
un-clo 24    closed       /fs/hseb/rfclx/rfc/nwsrfs/ffg/files/test/leecr/grpp/index

Generate:
  1 - ALLPROD
  2 - FFGONLY
  3 - FFHONLY
P - Products Menu
Q - Quit program
S - Setup Menu

Select (number, P, S or <return>-exit): █
```

2.4.1 group of product parameters

- Press S – Setup Menu →G – Groups of Products →I - list→ to dump out parameters
- enter an output file name (relative to where you are running this)
- select a number to start from (default is 1 – type <return>) then number to end at (default is MAX – type <return>) – **use defaults**
- select <return> twice to go back to screen shown above

2.4.2 product parameters

- Press S – Setup Menu →P – Products →I - list→ to dump out parameters
- enter an output file name (relative to where you are running this)
- select a number to start from (default is 1 – type <return>) then number to end at (default is MAX – type <return>) – **use defaults**
- select <return> twice to go back to screen shown above

2.4.3 text parameters

- Press S – Setup Menu →T – Text →I - list→ to dump out parameters
- enter an output file name (relative to where you are running this)
- select a number to start from (default is 1 – type <return>) then number to end at (default is MAX – type <return>) – **use defaults**
- select <return> twice to go back to screen shown above

2.5 Am I ready to run the FFG migration scripts?

After testing the FFG migration scripts with the CAT, here are some things to be aware of when trying the migration of the legacy NWSRFS functionality to CHPS.

1. The FFG migration scripts rely on the linkages previously used by NWSRFS. For example, using the following NWSRFS segment as an example

```
IDENTIFIER  EGLN5          36.53    105.23
TITLE      EAGLE NEST DAM
UPSTREAM
DOWNSTREAM CMMN5X
DEF-TS
EGLN5      MAP          6          INPUT          FPDB          CARD INPUT
.....
END
SNOW-17    EGLN5A
EAGLE NEST DAM      2970.  36.5          YES SUMS          RDCO
.....
SAC-SMA    EGLN5B
EAGLE NEST DAM          6  EGLN5    RAIM          EGLN5    INFW
.....
FFG        EGLN5
EGLN5      EAGLE NEST DAM          0  0.00  0.00
EGLN5      SAC-SMA    EGLN5A    SNOW-17    EGLN5B
CLEAR-TS
EGLN5      SQIN          6
```

The FFG operation with ID EGLN5 (in pink) refers to a SAC-SMA model with ID EGLN5A (in blue) and a snow model with ID EGLN5B (in green). The FFG operation is part of a segment named EGLN5X.

For the following FFG operation to migrate successfully it is assumed this segment was migrated to FEWS using the migration scripts. The result in FEWS would be:

- a. A FEWS module config directory named “egln5” (./Config/Module-Config/egln5x)
 - b. A “Forecast” module config file for SNOW-17 and SAC-SMA
 - i. SAC_SMA_EGLN5_EGLN5A_Forecast.xml
 - ii. SNOW17_EGLN5_EGLN5B_Forecast.xml
2. In migrating the models, if the segment identifier, SNOW-17 module name, and/or SAC-SMA module name changed. The segment punch file should reflect these changes
 3. It is helpful, if the segment punch file does not contain “obsolete” segments. The segment should be removed and therefore the any FFG operations are removed.

4. **(For FFH)** If the FFG id (in Pink) is changed, the FFH headwater parameters (extracted using FFGUID – see #1 above) should change. For example, if the following FFH headwater parameter file originally had the following entry:

```

hffg EGLN5   Waltreak       'Dutch Creek'       0   0
0 0 0 nonenone 4200 7178 6382 5585 -98 -98 0 0
0 EGLN5 0 endid

```

The orange field was used to link the FFH definition to an FFG ID (in Pink)

5. If FFH or GRIDDEDFFG was originally configured in NWSRFS to use retrieve the flood flow from the rating curve, the FFG migration scripts assume an entry exists in the ThresholdValueSets.xml file for the flood flow at a given location. The flood flow needed is the one associated with "PRIMARY FLOOD STAGE".
6. **(For GRIDDEDFFG)** An ESRI shapefile of FFG Zones/Areas is needed to compute the area averages. Area averages are computed using existing FEWS functionality.

The <esriShapeFile> entry added to the "Polygons.xml" FEWS configuration file by the FFG migration scripts in most cases will need manual modifications. In our scripts the entries from the FFG area parameters file (#4 above) are converted into entries in the Polygons.xml file.

For example, the following entries in the FFG areas parameters file:

```

affg MEZ020 ANDROSCOGGIN 0 2 MEZ020 0.60 1.00 1.15 1.25 1.50
affg MEZ001 'NWRN AROOSTOOK' 0 2 MEZ001 0.60 1.00 1.15 1.25 1.50

```

are converted into the following entries in the Polygons.xml file:

```

<shape shapeld="Androscoggin" locationId="MEZ020"/>
<shape shapeld="Nwrn Aroostook" locationId="MEZ001"/>

```

Our scripts use column#1 for the locationId and column #3 for the shapeld. The shapeld entries will probably need manual modifications to match the strings used in the ESRI shapefile or they might need to be redone to match the attribute chosen for the <shapeldAttributeName>.

Note: Changing the locationId entries will require changes to the product parameters file (#6 above). The locationId's are linked to how the FFG shef products are created. If you want to use different locationIds,

you must change the product parameters file. For example the following entry from the product parameters file shows a product description for producing the FFG shef product for FFGME:

```
prod FFGME SHEF AFFG BOSFFGME E TTAA00 KTAR E 24 1 0
  FFGHD TEXT GRAY TEXT FFGDESC TEXT MAINE TEXT CARZONE TEXT
  MEZ001 AFFG MEZ002 AFFG MEZ006 AFFG MEZ003 AFFG MEZ004 AFFG
```

The ids in red represent the ids for which the FFG area values will be inserted. These ids must match the ids in the areas parameter file.

Before Running FEWS-FFG migration script

Make a backup of your current Config directory. Note: migration scripts should be run on a FEWS Stand Alone version.

2.6 Running the FEWS-FFG migration script

to run migration script, it is required to update the ffg.setting file, this file is located under: ../ffgmigration/scripts/setting directory.

2.6.1 Update FFG setting file: ffg.setting

The ffg.setting file is used to set up properties for FFH, Gridded FFG and Product Generator.

A sample ffgMigration setting files are provided under the /setting directory, however user needs to update the file's properties to point to where they are located at the RFC. The FFG properties are listed as follows:

ohdBinDir: Point to the directory where OHD executables are (e.g /nerfc_sa/Models/ohd/bin)

ffgInputDir: Point to the directory where the NWSRFS legacy "punch" files (i.e. the files described above step #1- step #7)

ffgParameterOutputDir: temporary directory used to store parameter files

```
# The punch segment file
#punchParamTextFile=abrfc.punchsegs
punchParamTextFile=abrfc.ffg.text
```

```
# The setup punch file
setupParamTextFile=abrfc.ffh.setup
```

```
# the file prefix for files with gridded Threshold runoff values
gridParamFile=xhr (#3 above)
```

the prodgen text definitions
inputParamTextFile=abrfc.ffg.text

the prodgen product definitions
productParamTextFile=abrfc.ffg.products

the OFS basin definitions
basinPunchParamTextFile=abrfc.basins.punch

userParamTextFile: User Control Parameters filename (#2 above).

setupParamTextFile: Headwater Parameters filename (#1 above).

runModule: Generated products, all the options are case sensitive.

- a) FFH - This specifies migration scripts to migrate FFH product
- b) PRODGEN - This specifies migration scripts to migrate Product Generator
- c) GRIDDEDFFG - This specifies migration scripts to migrate Gridded FFG
- d) FFH_GRIDDEDFFG – This specifies migration scripts to run FFH and Gridded FFG
- e) FFH_PRODGEN – This specifies migration scripts to run FFH and Product Generator
- f) GRIDDEDFFG_PRODGEN – This specifies migration scripts to run Gridded FFG and Product Generator
- g) ALL specifies migration scripts to run for FFH, Gridded FFG, and PRODGEN

levelThresholdId: Threshold level ID, this is set in file:
Config/RegionConfigFiles/ThresholdValueSets.xml
e.g: ACTION, MINOR, RECORD, BF, FS, MOD, MAJOR ...

fewsConfigDir: Directory where current FEWS SA. Configuration directory is located e.g. /awips/chps_share/sa/fews/nerfc_sa/Config

Note: this is the “Config” directory that will be updated.

RFC: rfc id name e.g. nerfc, abrfc, ncrfc...

export JAVA_HOME - java home environment variable. This should be where your current java directory on your system. e.g export
JAVA_HOME=/awips/chps_share/java

- **Setting properties for FFH configuration:**

A sample of property setting for FFH “**ffgMigration.setting.forFFH**” is provided under setting directory. See Appendix A for common definition of FFH migration properties.

- **Setting properties for PRODGEN configuration:**

A sample of property setting for PRODGEN

“**ffgMigration.setting.forPRODGEN**” is provided under setting directory.

See Appendix B for common definition of PRODGEN migration properties.

- **Setting properties for Gridded FFG configuration:**

A sample of property setting for gridded FFG

“**ffgMigration.setting.forGRIDDEDFFG**” is provided under setting directory. See Appendix C for common definition of gridded FFG

migration properties.

2.6.2 Executing the Script: `./runFFGMigration.bash` command

From scripts directory, execute the `runFFGMigration.bash` script:

For example: `./runFFGMigration.bash`
`../setting/ffgMigration.setting.For_FFH`

Note: the sample `ffgMigration.setting.forFFH` is a FFH migration property setting file. It resides under **setting** directory. It can be placed any where. The full path for the setting file needs to specify in the scripts argument.

2.7 What to expect after running FFG migration script.

At the end of the run, should not see any errors and the message “**Finished XXX Migration**” displays at completion of the run.

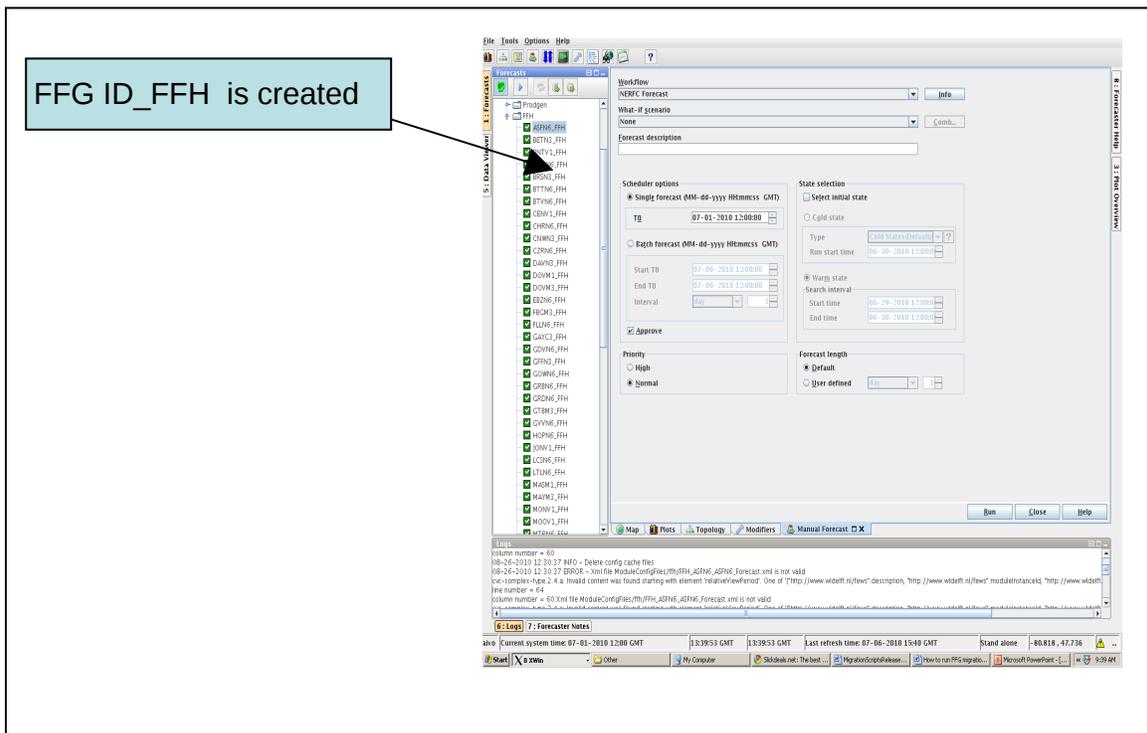
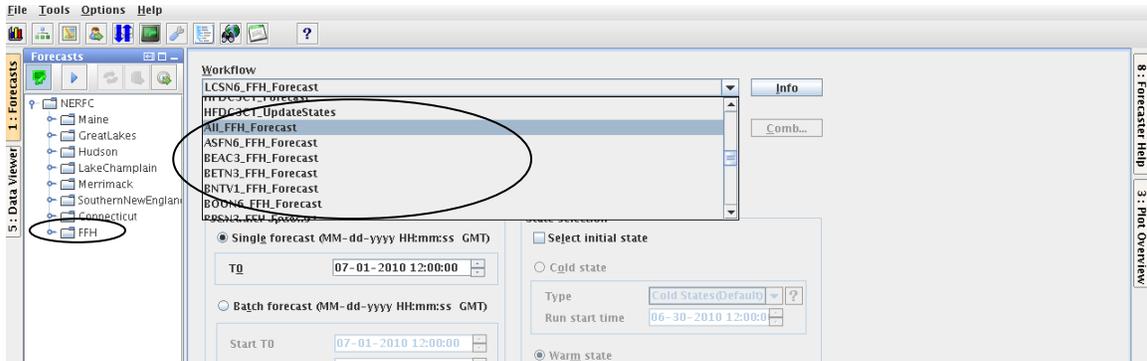
FFH_log.txt file will be created during the run of migration scripts. This file is created inside the **scripts** directory. Information about the run is stored in this file, the first part is a list of locations that are successfully migrated, and the second part is the list of locations that are failed to migrate. It is useful to use the information in the log file to verify differences between current configuration and the RFS punch file.

Bring up FEWS with the updated “Config” directory,

2.7.1 For FFH migration:

New FFH forecast folder will be created.

New FFH workflows will be added in the “manual forecast” list.



2.7.2 For PRODGEN migration:

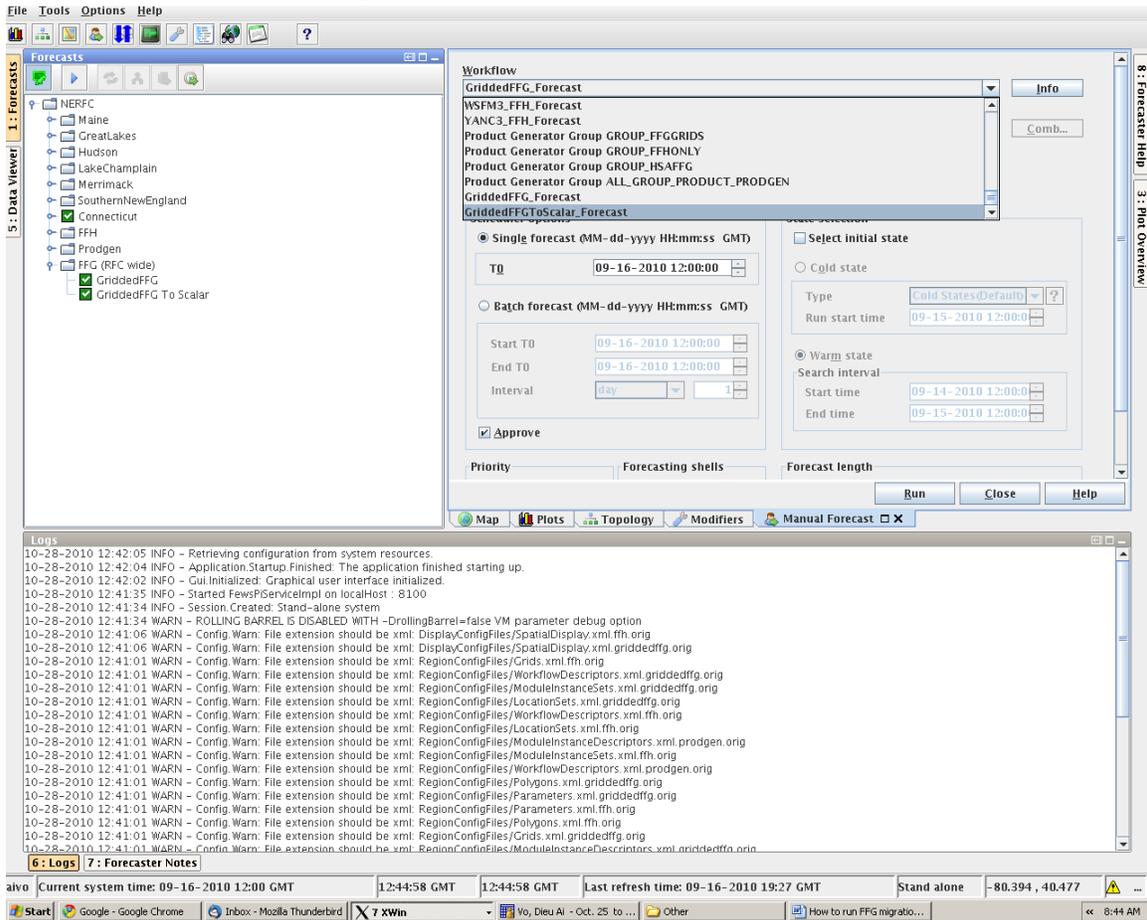
The screenshot displays the Forecaster application interface. The main window is titled "Forecasts" and contains a "Data Viewer" on the left and a "Workflow" configuration panel on the right. The "Data Viewer" shows a tree structure of data sources, including "NERFC", "Maine", "GreatLakes", "Hudson", "LakeChamplain", "Merrimack", "SouthernNewEngland", "Connecticut", "FFH", and "Prodgen". The "Prodgen" folder is expanded, showing sub-items: "Prodgen_GROUP_FFGGRIDS", "Prodgen_GROUP_FFONLY", "Prodgen_GROUP_HSAFFG", and "FFG (RFC wide)".

The "Workflow" panel is currently set to "GriddedFFG_Forecast". Below this, a list of product generator groups is shown, with "ALL_GROUP_PRODGEN" selected. The "Forecast Selection" section is active, showing "Single forecast (MM-dd-yyyy HH:mm:ss GMT)" selected. The "TQ" is set to "09-16-2010 12:00:00". The "Batch forecast" section is also visible, with "Start TQ" set to "09-16-2010 12:00:00", "End TQ" set to "09-16-2010 12:00:00", and "Interval" set to "day". The "Warm state" section is selected, with "Search interval" set to "09-14-2010 12:00:00" and "End time" set to "09-15-2010 12:00:00".

At the bottom of the interface, there is a "Logs" window showing a series of system messages and warnings. The messages include information about application startup, GUI initialization, and session creation, as well as multiple "Config Warn" messages indicating that file extensions should be .xml for various configuration files.

6: Logs | 7: Forecaster Notes

2.7.3 For GRIDDFFG migration:



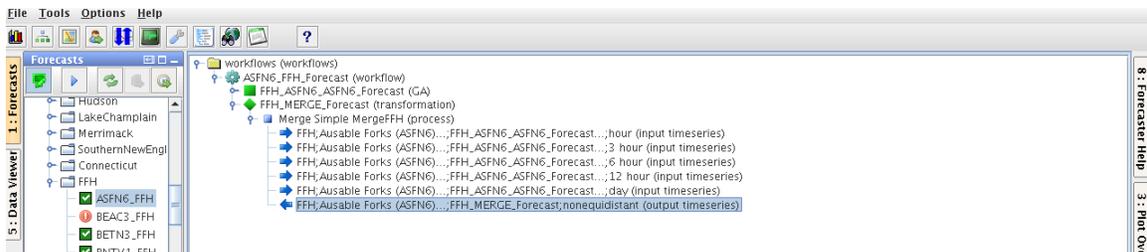
2.8 Viewing output display

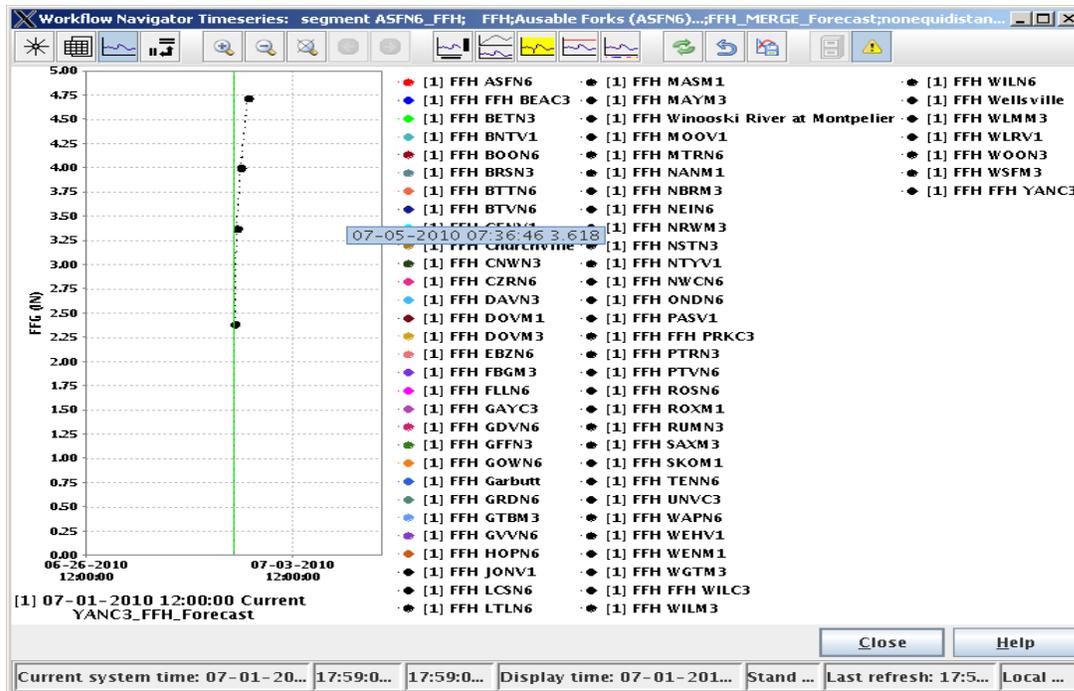
Using "Workflow Navigator" to view Product output.

1. For FFH output

See below sample displays:

Note: this is the default display; OHD did not do anything to configure unique displays. Another way to view the output is from the "database viewer"





2.8.1 For PROGEN output

Product outputs is by default saved under `../xxrfc_sa/Export` directory.

2.8.2 For Gridded FFG output

To see the output of gridded FFG, from Tool Meun-> select Spatial Data ->Flash Flood Guidance->Gridded Flash Flood Guidance or Area-Wide Flash Flood Guidance. See display below:

2.9 Migration setting properties for FFH Configuration

runModule=FFH

RFC, abrffc, nerffc, etc. XX is rfc ID.

RFC=XXrfc

Directory with OHD jars and executables (e.g. /awips/chps_share/ohd/bin)

ohdBinDir=/awips/chps_share/ohd/bin

Where ffg input directory with all the RFS punch files.

ffgInputDir=../../ohdfewsadapter/testData/ffgLegacyFiles/XXrfc

#temporary direcotry used to store parameter files.

ffgParameterOutputDir=../../chps_share/ffgLegacyFiles/output

The punch segment file

punchParamTextFile=XXrfc.punchsegs

```

# The user punch file
userParamTextFile=XXrfc.ffg.user

# The setup punch file
setupParamTextFile=XXrfc.ffh.setup

# A FEWS Config directory
fewsConfigDir=/awips/chps_share /sa/XXrfc_sa/Config

# RFC level of threshold ID, i.e BT, ACTION, etc. See your RFC's
Config/RegionConfigFiles/ThresholdValueSets.xml

levelThresholdId=BF

# runing module can be GRIDDEDFFG, FFH, PRODGEN or ALL
runModule=FFH

# Is run a RFC for first time, YES/NO all upper cases, 1st time copy module
parameter, config files and workflow take longer time. By default is set to "YES"
isRunARFC1stTime=YES

export JAVA_HOME=/awips/chps_share/java – This should point to where
current jre on your system.

```

2.10 Migration setting properties for PRODGEN Cofiguration

On top of common properties needed in setting file, six properties required for PRODGEN are:

1. **userParamTextFile=XXrfc.ffg.user**
2. **setupParamTextFile=XXrfc.ffh.setup**
3. **areaParamTextFile=XXrfc.ffg.area**
4. **groupParamTextFile=XXrfc.ffg.groups**
5. **productParamTextFile=XXrfc.ffg.products**
6. **runModule =PRODGEN**

Sample setting file for PRODGEN:

```

# RFC, abrffc, nerffc, etc.
RFC=XXrfc

# Directory with OHD jars and executables (e.g. /awips/chps_share/ohd/bin)
ohdBinDir=/awips/chps_share/ohd/bin

# Where ffg input directory with all the RFS punch files.

```

ffgInputDir=../.././ohdfewsadapter/testData/ffgLegacyFiles/\$RFC

#temporary direcotry used to store parameter files.

ffgParameterOutputDir=../.././ohdfewsadapter/testData/ffgLegacyFiles/
\$RFC/output

The punch segment file

#punchParamTextFile=abrfc.punchsegs
punchParamTextFile=abrfc.ffg.text

The punch segment file; needed by GRIDDEDFFG and PRODGEN; soon to be
removed; will use punchParamTextFile
paramTextFile=XXrfc.punchsegs

The user punch file

userParamTextFile=XXrfc.ffg.user

The setup punch file

setupParamTextFile=XXrfc.ffh.setup

the ffg areas definition

areaParamTextFile=XXrfc.ffg.areas

the prodgen text definitions

inputParamTextFile=abrfc.ffg.text

the prodgen product definitioins

productParamTextFile=abrfc.ffg.products

the OFS basin definitions

groupParamTextFile=abrfc.ffg.groups

A FEWS Config directory

fewsConfigDir=/awips/chps_share /sa/XXrfc_sa/Config

RFC level of threshold ID, i..e BT, ACTION, etc. See your RFC's
Config/RegionConfigFiles/ThresholdValueSets.xml

levelThresholdId=BF

runing module – this is a common property for all products. When running
migrations for PRODGEN configuration, this property is set to:

runModule =PRODGEN

isRunARFC1stTime property: YES/NO all upper cases. For the first time, set to "YES", the scripts would copy module parameters, config files and workflow to a temporary directory. This would take longer time to run the script when set to "YES".

isRunARFC1stTime=YES

export JAVA_HOME=/awips/chps_share/java

2.11 Migration Setting properties for GriddedFFG

RFC, nerfc, nerfc, etc.

RFC=nerfc

Directory with OHD jars and executables (e.g. /awips/chps_share/ohd/bin)

ohdBinDir=../../ohdfewsadapter/Modules/bin

Where ffg input directory with all the RFS punch files.

ffgInputDir=../../ohdfewsadapter/testData/ffgLegacyFiles/\$RFC

#temporary direcotry used to store parameter files.

ffgParameterOutputDir=../../ohdfewsadapter/testData/ffgLegacyFiles/
\$RFC/output

The punch segment file

punchParamTextFile=nerfc.punchsegs

The user punch file

userParamTextFile=nerfc.ffg.user

the file prefix for files with gridded Threshold runoff values

gridParamFile=xhr

the ffg areas definition

areaParamTextFile=nerfc.ffg.areas

the OFS basin definitions

basinPunchParamTextFile=nerfc.basins.punch

the threshR grid parameter adjustments - optional (nerfc - yes, nerfc - no)

gdpmParamTextFile=nerfc.ffg.gdpm

the esri Shape File Name - for polygons xml file

griddedFFGShapeFile=ShapeFileName

```
# the shape Id Attribute Name - for polygons xml file
griddedFFGShapeFileAttribute=ShapeIdAttributeName

# A FEWS Config directory(Using $USER to avoid hard-coded user name)
fewsConfigDir=/awips/chpshome/$USER/nerfc_sa/Config

# RFC level of threshold ID, i..e BT, ACTION, etc. See your RFC's
Config/RegionConfigFiles/ThresholdValueSets.xml
levelThresholdId=ACTION

# runing module can be GRIDDEDFFG, FFH, PRODGEN or ALL
runModule=GRIDDEDFFG

# Is run a RFC for first time, YES/NO all upper cases, 1st time copy module
parameter, config files and workflow take longer time
isRunARFC1stTime=YES

export JAVA_HOME=/awips/hydroapps/CHPS_jdk/java
```