PSH User Instructions

Scope

This document provides user instructions for the Migrated Post Tropical Cyclone Report Generator (**PSH**) application integrated into AWIPS II and based on a Legacy version (V 1.3 used alongside AWIPS I and II. This document assumes working knowledge of the Legacy PSH program and its associated meteorological data and terms, and of the AWIPS II system.

Most part of this document is updated from **PSH Generator User's Guide** Version 1.3 written by John C. McMichael and Anthony Reynes at WFO Tampa Bay Area, Ruskin FL.

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Installation

PSH is planned to come out to WFOs with AWIPS2 18.1.1. It is a tool module in D2D perspective under "**Tools**" menu as "**PSH**". Before running PSH, you may need to import your legacy PSH configuration files and set up a list of storm names for a new PSH season.

Import legacy configuration files

In AWIPS2, PSH configuration is saved in the localization store (SITE level) as XML files. If legacy PSH has been in use at your site and you already have some configuration files, they could be imported into localization store to let PSH picks them up. Normally, these files are under /data/local/PSH or /data/local/PSH/ConfigureBackup directory, including:

cities_pipe.txt	customized cities file
config_headers.txt	customized headers info
county2.dat	list of counties
fcstr.dat	list of forecasters
marine_stationinfo.txt	list of marine stations
official_stationinfo.txt	list of METAR stations
unofficial_stationinfo.txt	list of non-METAR stations
shapefiles_cwas.txt	list of CWAs

Copy these text files into /awips2/edex/data/utility/common_static/site/OAX/psh/setup (replace OAX with your site ID) as a root user. If the directory "psh/setup" does not exist, create it and "cd" to /awips2/edex/data/utility/common_static/site/OAX and set privilege as "chown -R awips:fxalpha psh".

Storm Names

Storm names in legacy PSH are delivered at localization BASE level for each basin. If a list of storm names is needed for a new storm season, the site administrator can manually create one and copy it into "/awips2/edex/data/utility/common_static/base/psh/setup/atlantic" (change basin directory if needed, such as "centralpac", "eastpac"). The file should be named as "storm_??.txt", where "??" is the last two digits of a specific storm season. The first line of the file is always the storm season such as "2017" and followed by the storm names, one per line.

Setup PSH

In CAVE D2D, click "Tools", then "PSH". PSH main window shall open up (Figure 1).

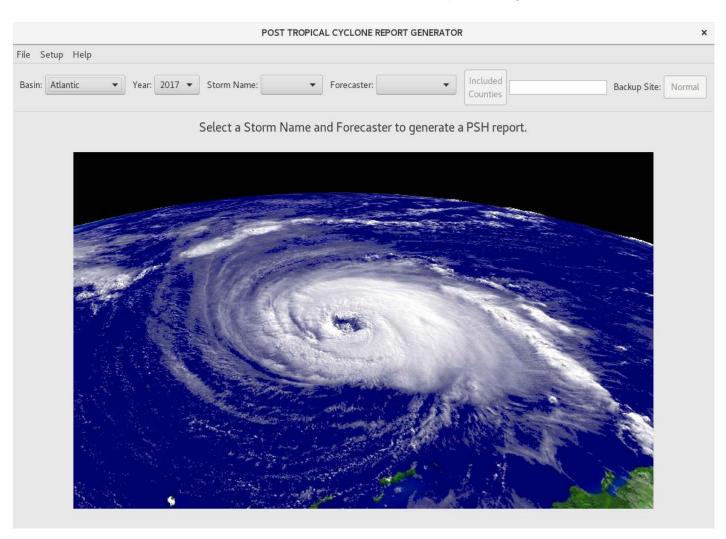


Figure 1 - PSH main window

There are seven setup steps (click "Setup" menu to see them), which must be performed in order to run the PSH Generator properly.

General Setup Functionalities and Procedures

Functionality Buttons

All setup dialogs have a similar set of buttons as below:

Add A new row is created at the bottom for adding a new entry.

• **Delete** Delete the selected rows

• Save Change Save the configuration into localization

• Reset the GUI by loading from the last-saved configuration.

• Exit Close the dialog

Procedures

- Click "Add" and a new row will be added at the bottom, type in the name you want to add (CWA, County name, etc). Note that auto-completion is implemented using the existing information in AWIPS database. So while you are typing, a list of records that match what you have typed will appear in a drop-down list to assist you. You can double-click to pick one from the list.
- Click "Save Change" to save or click "Reset" to get rid of what you just added (not saved yet).
- For saved ones, you can click the checkbox at the first column to selected them and click "**Delete**" to remove them. A confirmation message dialog will open up for you to authorize the deletion.

Important - The text-based configuration files (legacy configurations, water level stations, etc.) you imported will be loaded only **ONCE** at the very **FIRST** time when a setup dialog (Program Configuration, Counties, Forecasters, etc.) opens. Any "**Save**" will save the configurations into localization as XML files and then the PSH program will read from the saved XML files from then on. If in case you want to start from the legacy configurations again, you need to manually remove the XML file in the localization (see **Installation** section)

Step 1. Program Configuration

The Program Configuration window contains the basic headers, time zone, TC basin settings, LSR Header, WMO Node information etc (see Figure 2).

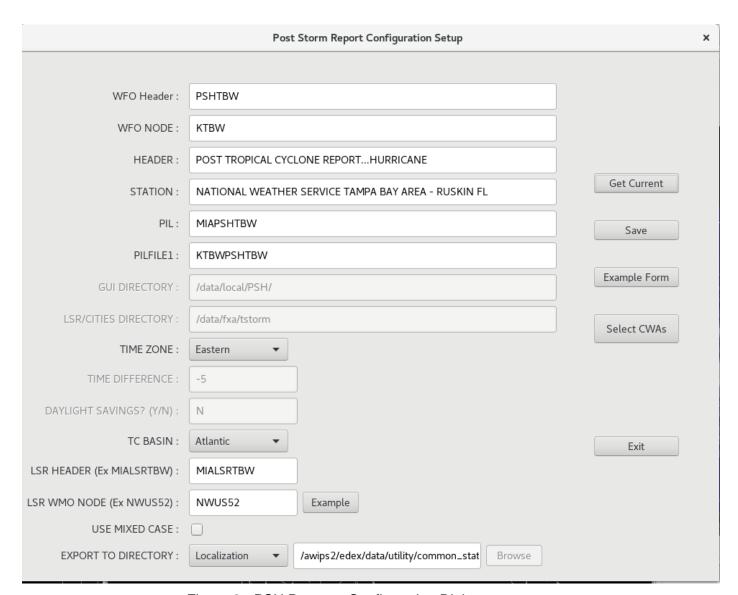


Figure 2 - PSH Program Configuration Dialog

If you have imported/copied your legacy configuration file (config_headers.txt) into localization. It will be loaded and shown in the dialog now.

If you start from fresh, click "**Example Form**" button at right to see the example configuration for WFO TBW and simply substitute the information with your local WFO equivalents (Figure 3).

Post Storm Report Configuration Example Form

×

Dismiss

POST TROPICAL STORM REPORT CONFIGURATION FILE (EXAMPLE)

WFO HEADER: PSHTBW WFO NODE: KTBW

HEADER: POST TROPICAL CYCLONE REPORT...HURRICANE

STATION: NATIONAL WEATHER SERVICE TAMPA BAY AREA - RUSKIN FL

PIL: MIAPSHTBW

PILFILE1: KTBWPSHTBW

GUI DIRECTORY: /home/jwu/git_psh/AWIPS2_NWS/viz/gov.noaa.nws.ocp.viz.psh/

LSR/CITIES DIRECTORY: /data/fxa/tstorm/

*TIME ZONE (A/E/C/M/P/H/CH): E

**TIME DIFFERENCE: 5

***DAYLIGHT SAVINGS? (Y/N): Y

****TC BASIN (AT/EP/CP/WP): AT

LSR HEADER: MIALSRTBW LSR WMO NODE: NWUS52

- * A = Atlantic Time Zone, E = Eastern Time Zone, etc.
- ** Hours to GMT. For EST, Time Difference is 5 hours.
- *** Indicate if Daylight Savings is observed (Y/N).
- **** Indicate the Storm Basin area you are in (AT = Atlantic, EP = East Pacific, etc.

Get Current Retrieve the current headers.

Save Save configuration into localization store (config_headers.xml)
 Example Form Open up a dialog showing example configuration for TBW

• **Select CWAs** Opens up a dialog to select/add CWAs (Figure 4)

• Exit Close dialog

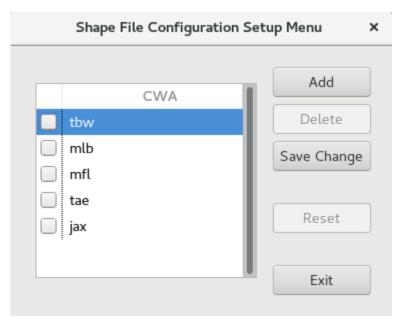


Figure 4 - PSH CWA Selection Dialog

Note: CWAs are used to determine geographical positions and reference cities using latitude/longitude coordinates. They are loaded from AWIPS2 database table. Add up to 5 CWA names and click "Save". These CWA"s will be your primary backup, secondary backup, etc. once the backup capabilities are implemented in the future.

Step 2. Setup Counties

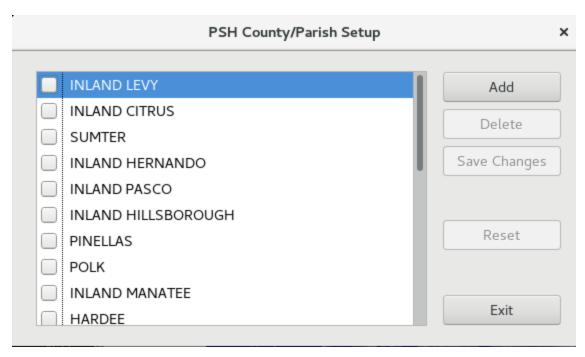


Figure 4 - PSH County Setup Dialog

When you manually add a new county, the counties in AWIPS2 **mapdata.county** table are used for auto-completion.

Step 3. Setup Forecasters

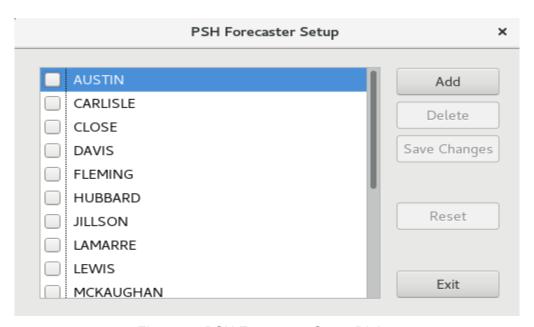


Figure 5 - PSH Forecaster Setup Dialog

In general, only the last name is required here.

Step 4. Setup Cities/Water Level Stations

City	County	State	Latitude	Longitude	Station Code	Tide Gauge
ALBERT WHITTED AIRPORT	PINELLAS	FL	27.7651	-82.627	KSPG	
ALVA	LEE	FL	26.7151	-81.6111		
ANNA MARIA ISLAND	MANATEE	FL	27.5289	-82.733		
APOLLO BEACH	HILLSBOROUGH	FL	27.7729	-82.4079		
ARCADIA	DESOTO	FL	27.2196	-81.8597		
ARCHBOLD	HIGHLANDS	FL	27.19	-81.35		
ARIPEKA	HERNANDO	FL	28.435	-82.668		
AUBURNDALE	POLK	FL	28.0702	-81.7978		
AVON PARK	HIGHLANDS	FL	27.5932	-81.5037		
AVON PARK BOMBING RANGE	HIGHLANDS	FL	27.702	-81.31		
BABCOCK RANCH	CHARLOTTE	FL	26.9466	-81.7616		
BABSON PARK	POLK	FL	27.8336	-81.5281		
BABSON PARK	DIRTBAG	KY	66.66	-77.56	KDIR	
BARTOW	POLK	FL	27.8952	-81.8472	KBOW	
BASKIN	PINELLAS	FL	27.8931	-82.8093		
BAYPORT	HERNANDO	FL	28.545	-82.65		
BAYSHORE GARDENS	MANATEE	FL	27.4335	-82.58		
BEE RIDGE	SARASOTA	FL	27.2873	-82.4756		

Figure 6 - PSH Cities and Water Level Stations Setup Dialog

When you manually add a new city, the cities in AWIPS2 **mapdata.city** table are used for autocompletion.

LSR Cities

PSH use the same file used by the Local Storm Report (LSR) program to identify cities in you CWA and their latitude/longitude coordinates (LSRcities.txt) and it could be found in "/data/fxa/tstorm" for most WFOs. Also consult your IT or AWIPS focal point to see if you have a locally customized one. Make a copy of this file, rename it as cities_pipe.txt and copy it into PSH localization (see **Installation**) before you start configure and save any changes from this dialog. The cities listed in that file will be shown at the top of this dialog.

Water Level Stations

Water level stations is a new requirement implemented in AWIPS2 PSH. It is used to created a new "Water Level" section in the PSH report to replace the "Tide/Surge" section in the legacy PSH report.

A file called "Water_Level_Stations.txt" is delivered with BASE level PSH. It has the same format as LSR cities and contains all water level stations. The stations are appended to the end of the dialog (denoted as "G" as Tide/Gauge stations). Through this dialog, you can delete and only keep those you need to shorten the list.

Step 5. Setup Metar Stations

	Node	Station Code	Station Name	State	Latitude	Longitude
]	MIA	KBKV	BROOKSVILLE	FL	28.47	-82.45
	MIA	KTPA	TAMPA INTERNATIONAL AIRPORT	FL	27.97	-82.53
	MIA	KPIE	SAINT PETERSBURG	FL	27.91	-82.69
	MIA	KSPG	ALBERT WHITTED	FL	27.77	-82.63
	MIA	KSRQ	SARASOTA	FL	27.4	-82.55
	MIA	KMCF	MACDILL AIRFORCE BASE	FL	27.86	-82.52
	MIA	KGIF	WINTER HAVEN	FL	28.05	-81.75
	MIA	KPGD	PUNTA GORDA	FL	26.92	-81.99
	MIA	KFMY	FORT MYERS PAGE FIELD	FL	26.58	-81.97
	MIA	KRSW	REGIONAL SOUTHWEST	FL	26.54	-81.76

Figure 7 - PSH Metar Station Setup Dialog

When you manually add a new METAR station, the US stations with ICAO and SAO identifiers are used for auto-completion.

Step 6. Setup non-Metar Stations

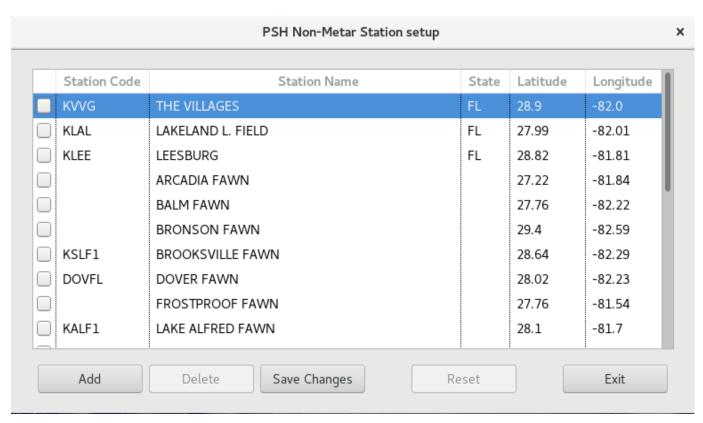


Figure 8 - PSH Non-Metar Stations Setup Dialog

When you manually add a new non-METAR station, all US Metar stations, plus stations with WFO, WMO, and Mesonet identifiers are used for auto-completion.

Step 7. Setup Marine Stations

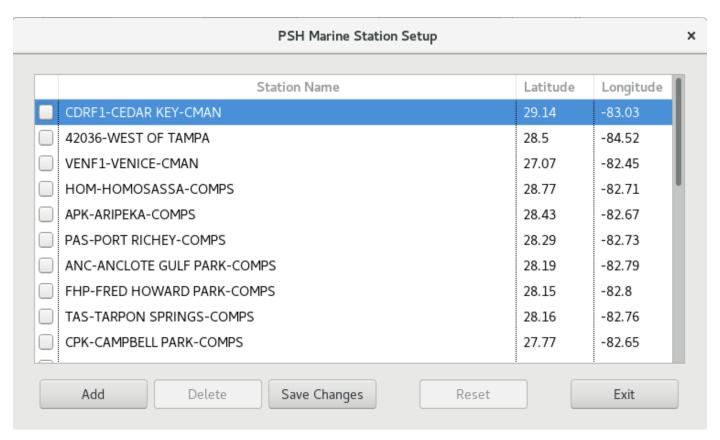


Figure 9 - PSH Marine Stations Setup Dialog

When you manually add a new marine station, stations at drifting buoy, fixed buoy, and coastal marine location identifiers are used for auto-completion.

PSH Generator

Once you are finished with all the configuration steps, the PSH Generator is ready to run.

NOTE: UNLESS THE ROUTE IS SET TO "LOC" or "000", SELECTING TRANSMIT WILL DISSEMINATE A LIVE PRODUCT!

Accessing the Generator

First select your basin and year from the drop-down list. Then select the storm name . Note that storm names are basic- and year- specific. i no storm names are shown, you need to go back to Installation section to set up the storm names. Then select a forecaster. The PSH Generator Dialog switches from entry window to generator window with all data category tabs.

If the storm you pick has been worked before by a different forecaster, a reminder dialog will open (Figure 10). Click "OK" to dismiss it.

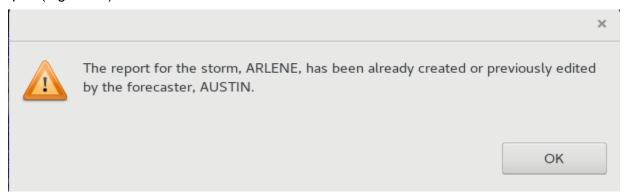


Figure 10 - PSH Storm Selection Reminder Dialog

Select Included Counties

If this is the first time the selected storm is worked on, a warning dialog (Figure 11) opens to remind you to select included counties. The selected counties will appear in the PSH product "COUNTIES INCLUDED" section.



Figure 11 - PSH County Selection Reminder Dialog

Click "Later" will dismiss the dialog. You can later perform this task by clicking "Included Counties" button at the right of the "Forecaster" drop-down list to open the county selection dialog.

Click "**Ok**" will bring up the county selection dialog immediately (Figure 12).



Figure 12 - PSH Included County Selection Dialog

The counties are sorted alphabetically (descending). You can can selected multiple counties by holding down "SHIFT" key (select a consecutive block) or "CTRL" key (select in-consecutive items). The selected counties are animated at the right of "Included Counties" button.

- > Add selected counties to be included in PSH report.
- Remove selected counties from included counties in PSH report.
- >> Add ALL counties to be included in PSH report.
- Remove ALL counties from included counties in PSH report.
- **OK** Save the selection and exit.
- **Cancel** Cancel the selection and exit.

General Functionalities

There are seven categories of data you may need to collect or input manually to generate PSH report. Each type of data is managed within its own tab and it could be have multiple data entries, which are managed in a table.

Each data tab has a similar interface, which consists of a data entry area at the top, a "Final Remarks" edit area at lower left, and a Preview area at lower right. A set of similar buttons and the procedures to retrieve/enter data are quite similar as well.

Data Entry Area

This is where the user to add/delete/edit data entries. It consists of a table that lists all data entries (one per row), and buttons like below:

Add Entry Add a new row at the bottom of the table for a new data entry

Edit Edit current entry (the row highlighted with blue)

OK Accept the changes in current entry

Clear Clear all data in current entry without save

Cancel Cancel the changes in current entry

Delete Delete current entry

Save Changes Save all data changes for current data category (tab)

Revert Changes Revert data to the last-saved copy

Up/Down Arrows Move current entry up/down in the table

Final Remarks Area

This is where the final remarks are entered/edited.

Edit Final Remarks Activate the text field to enter/edit the final remarks

Save Final Remarks Save the final remarks

Cancel the change for final remarks without save

Spell Check Opens AWIPS2 spell checker

Preview Area

The data shown in data entry table are displayed here in the format how they will appear in final PSH report. It helps to the user to confirm data before clicking "Save Changes". Note that "Final Remarks" will not be shown here.

METAR Land Obs

This is the first category of PSH data the Generator starts with (Figure 13).

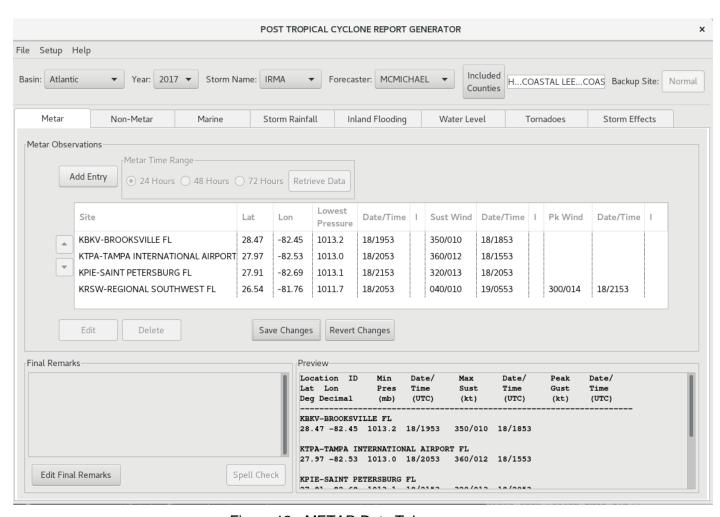


Figure 13 - METAR Data Tab

METAR data is mainly retrieved from the MTR reports in textdb in a few steps (Figure 14):

- Click "Add Entry" to add a new row at the end of table
- Click the drop-down list in the new row's "Site" column to pick a site

- Select time range (24, 48, or 72 hours).
- Click "Retrieve Data" to obtain the data and could edit them
- Click "Ok" to accept the data
- Click "Save Changes" to save them for final formatting.

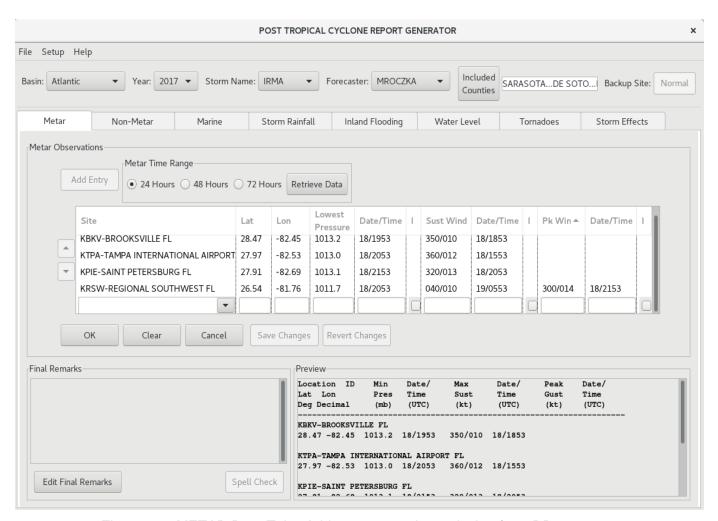


Figure 14 - METAR Data Tab - Add a new entry by retrieving from DB

Note that

- "I" after Lowest Pressure, Sust Wind, Pk Wind indicates if the data for that field is incomplete. If checked, an "I" will appear next to that field in the PSH report.
- For 72 hours, a warning message will come up to remind that the data may not be reliable beyond 48 hours.
- Data are formatted in the final PSH product with the same order they appear in the table So if needed, you should use up/down arrows at the left of the table to change the order and save them.

- Also, you can sort METAR table by a column (Lowest Pressure, Sust Wind, Pk Wind), either in descending or ascending order.
- You can also manually enter a METAR data entry as needed.

Non-METAR Land Obs

Non-METAR data tab is similar to METAR data tab (Figure 15). Except

- The data needs to be manually entered so no "Time Range" or "Retrieve Data" buttons.
- "Pk Wind" could be "Estimated" as indicated by checking the checkbox in column "E".
- There is an additional field for **Anemometer Height** at the end, which is in unit of meter/time in minutes (such as 10/02).

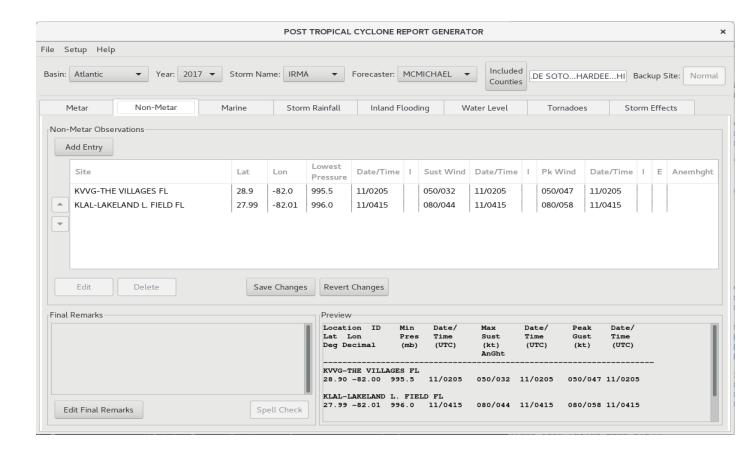


Figure 15 - Non-METAR Data Entry Tab

Marine Observations

Marine data tab is similar to non-METAR data tab (Figure 16) except there is no "Estimated" field for Pk Wind.

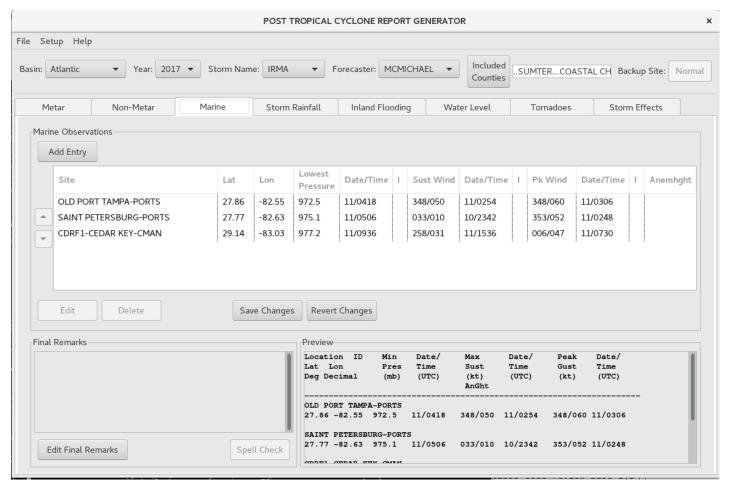


Figure 16 - Marine Data Entry Tab

Storm Rainfall

There are three ways to create a rainfall data entry:

- Retrieve from LSR reports in textdb
- Load from a user-generated text file
- Manually entered by the user

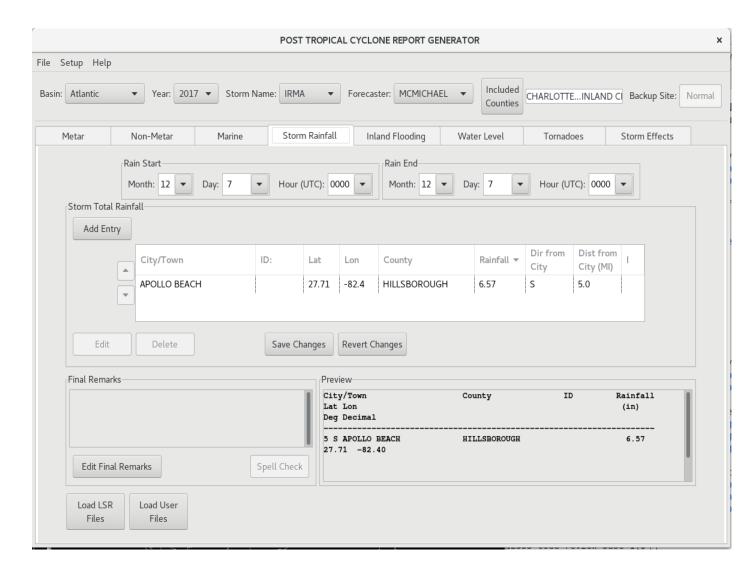


Figure 17 - PSH Rainfall Data Entry Tab

Retrieve Rainfall from LSR Report

- Click "Load LSR File" button at the lower left. "LSR File Manager" Dialog opens up (Figure 18). The LSR reports that contain at least one rainfall event will be listed at the left side, sorted by issuance time.
- Click on a report entry. It shows up in the LSR Viewer at right for your to review.
- Click "Load". The rainfall in the report is added into the rainfall entry table with a confirmation message (Figure 19).
- Continue to pick other reports from the left side to add more rainfall entries.
- Click "Close" to exit "LSR File Manager" when no more entries will be added.

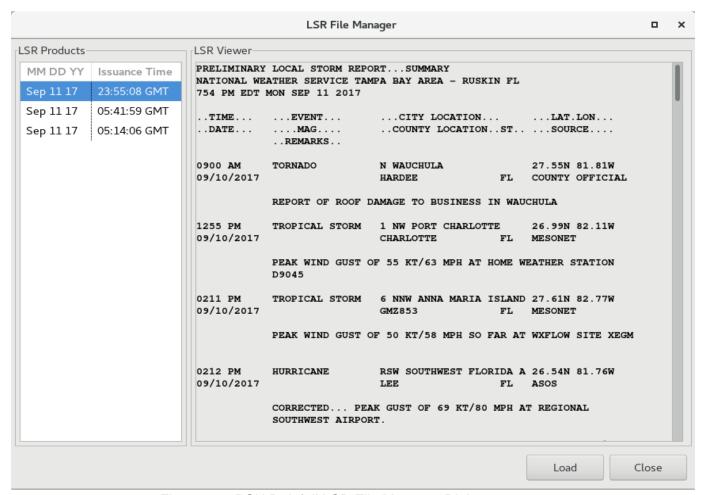


Figure 18 - PSH Rainfall LSR File Manager Dialog

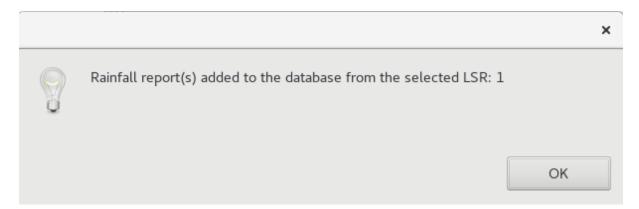


Figure 19 - PSH Rainfall Load Confirmation Message Dialog

Load Rainfall from User File

• Click "Load User Files" button at the lower left. "Load User File" Dialog opens up (Figure 20).

Click "Example" button to see the format for a rainfall user file. It should be a commadelimited file, one entry per line with "City,Lat, Lon, Distance from City, Direction from City, County,StationID, Rainfall, Incomplete", e.g.:

Palm Harbor, 28.08, -82.76, 1, SE, Pinellas, -, 2.34,I

- Click "Browse" to open up a file browser to locate the file (Figure 21)
- Select the file and click "Ok". The rainfall entries in the file will be added to the end of Rainfall table.

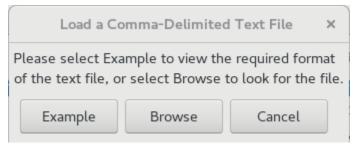


Figure 20 - PSH Rainfall Load User File Dialog

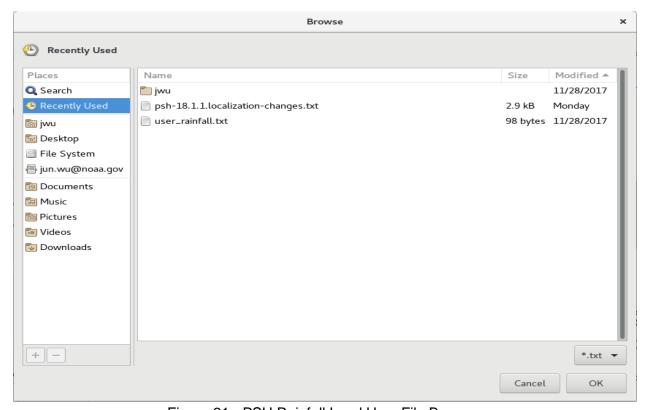


Figure 21 - PSH Rainfall Load User File Browser

Add Rainfall Entry Manually

- Click "Add Entry" button. A new row is added at the end of Rainfall table.
- Type in City/Town and other information directly or type in Lat/Lon first to help find a city.

Click "Ok" to accept. Note that "Rainfall" is a required field.

Sorting and Rain Period

- Rainfall is **ALWAYS** sorted automatically in a descending order by rainfall amount.
- You need to choose starting and ending time for the rain period as well.

Inland Flooding

Inland Flooding (Figure 22) can be either retrieved from LSR reports (like rainfall) in textdb or entered manually by clicking "**Add Entry**" button. For manual input, you can choose from the list of counties you configured in the setup and then adding "Flooding Input". There is no "**Final Remarks**" for "Inland Flooding".

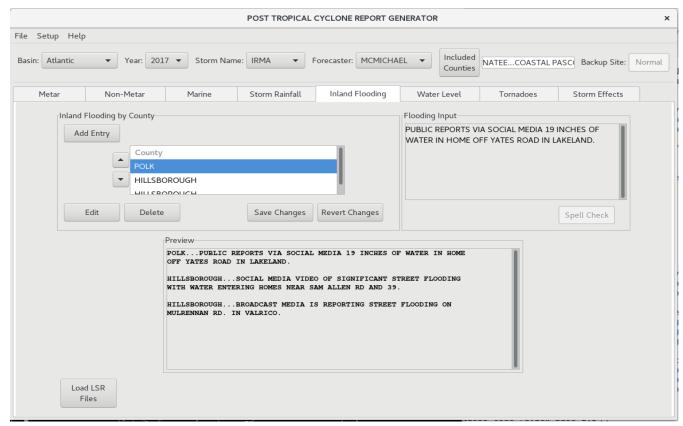


Figure 22 - PSH Inland Flooding Data Entry Tab

Water Level

Water level (Figure 23) is a new section implemented to replace the "Tide/Surge" section in the legacy PSH report. The data could only be manually entered.

- Click "Add Entry" to add a new row.
- Click on "Location" column in the new row to select a water level station from list.
 ID/County/State/Lat/Lon will be automatically filled.
- Type in "Water Level" amount
- Pick "Datum" from the list.
- Type in "Date/Time".
- Pick "Source".
- Check "Incomplete" if needed.
- Click "OK" to accept.

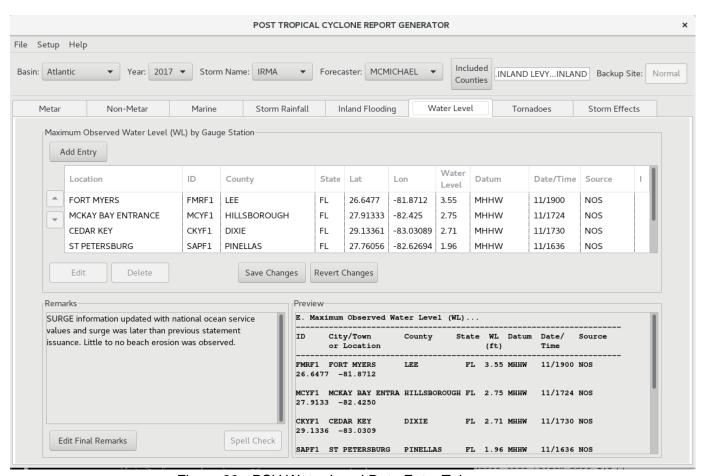


Figure 23 - PSH Water Level Data Entry Tab

Tornadoes

Tornado data entry can be retrieved from LSR reports in textdb or manually entered, the same way like how rainfall data entry is generated.

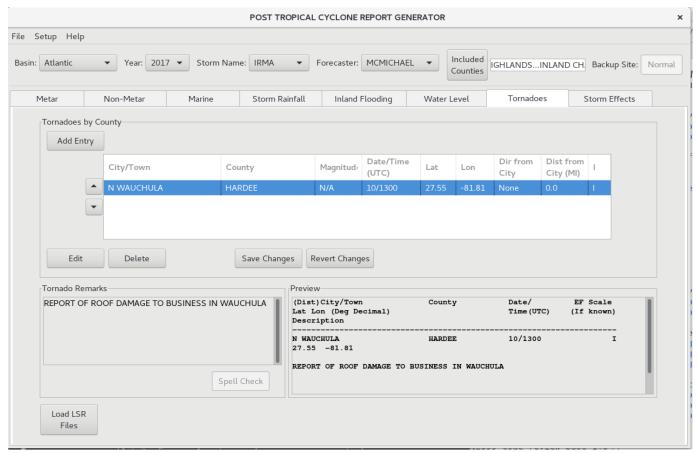


Figure 24 - PSH Tornado Data Entry Tab

Storm Effects

Storm Effects (Figure 25) can be retrieved from LSR reports in text DB or manually entered, the same way line "Inland Flooding". Note that the "LSR File Manager" is slightly different here (Figure 26). There are a list of storm hazard categories at right and you pick the ones you want to add in. After clicking "Load", each category you pick will be checked against the report and loaded with a confirmation massage.

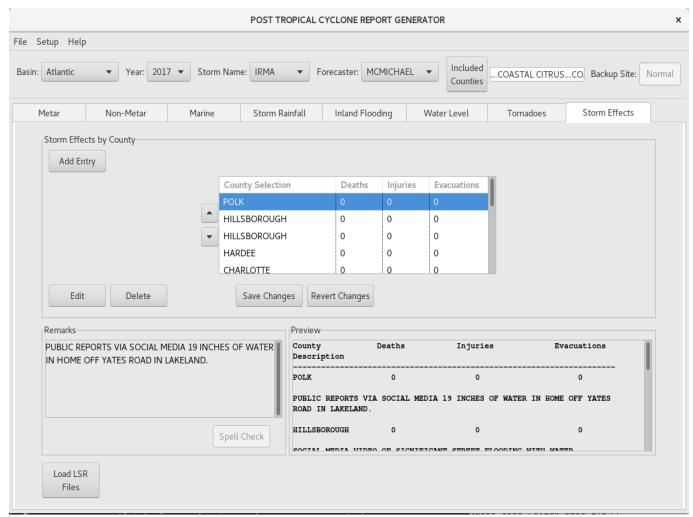


Figure 25 - PSH Storm Effects Data Entry Tab

PSH Report Viewer/Transmitter

Once you have entered PSH data entry window, you can view PSH report anytime by clicking "File" menu, then "View/Send Report" to open up the dailog to review (Figure 26), or print report by clicking "File" => "Print Report". The report is built using all saved data for current storm.

The "View/Send" dialog has the following buttons:

Storm Type

Allow to pick from Subtropical Storm, Tropical Depression, Tropical Storm and Hurricane. When "Tropical Depression" is selected, you can specify it as "Tropical Depression with No Name" and then pick a storm number. These changes are immediately reflected in the report.

Transmit Type "ROU" (Routine), "AAx" (Amended), or "CCx" (Corrected). When

"AAx" or "CCx" is selected, a dialog will open up to ask you to enter a

reason for the update (Figure 27).

Route By Default, it is "ALL". When "LOC" or "000" is selected, the report will

only be stored into local textdb without sending out when "Transmit" is clicked. NOTE: UNLESS THE ROUTE IS SET TO "LOC" or "000", SELECTING TRANSMIT WILL DISSEMINATE A LIVE PRODUCT!

Transmit Transmit the PSH report as an AWIPS2 Official User Product.

Print Opens a dialog to print the report to a selected printer.

Close the dialog.

View/Send PSH	0	×
Storm Type: Hurricane ▼		
PSH Viewer—		
POST TROPICAL CYCLONE REPORTHURRICANE IRMACORRECTED NATIONAL WEATHER SERVICE TAMPA BAY AREA - RUSKIN FL 227 PM EST FRI DEC 8 2017		
NOTE: THE DATA SHOWN HERE ARE PRELIMINARYAND SUBJECT TO UPDATE AND CORRECTIONS AS APPROPRIATE.	s	Ш
THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS WERE IN EFFECTOR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH IRMA		ı
COUNTIES INCLUDEDCOASTAL CHARLOTTECOASTAL CITRUS COASTAL HERNANDOCOASTAL HILLSBOROUGHCOASTAL LEE COASTAL LEVYCOASTAL MANATEECOASTAL PASCOCOASTAL SARASOTA. DE SOTOHARDEEHIGHLANDSINLAND CHARLOTTEINLAND CITRUS INLAND HERNANDOINLAND HILLSBOROUGHINLAND LEEINLAND LEVY INLAND MANATEEINLAND PASCOINLAND SARASOTAPINELLASPOLK. SUMTER		۱
DEC 7UPDATED FORADDED WATER LEVEL INFORMATION		ш
DEC 7CORRECTED FORINCORRECT START AND END DATES FOR STORM TOTAL RAINFALL SECTION		ı
A. LOWEST SEA LEVEL PRESSURE/MAXIMUM SUSTAINED WINDS AND PEAK GUST	's	ш
METAR OBSERVATIONS NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUT	ES	
Transmit PSH————————————————————————————————————		
Type: ROU ▼ Route: ALL ▼ Transmit Print Report Clos	e	

Figure 26 - PSH View/Send Dialog



Figure 27 - PSH View/Send Update Status Dialog

View Historical PSH Report

There are historical PSH reports generated by the legacy PSH application. They can viewed by clicking "File"=>"View Historical Reports", browsing to the file (finalpsh.txt) and opening it (Figure 28). The report could be printed.

View Historical Reports	0	×						
PSH Viewer								
POST TROPICAL CYCLONE REPORTHURRICANE IRMA NATIONAL WEATHER SERVICE TAMPA BAY AREA - RUSKIN FL 100 PM EDT MON SEP 11 2017								
NOTE: THE DATA SHOWN HERE ARE PRELIMINARYAND SUBJECT TO UPDATE AND CORRECTIONS AS APPROPRIATE.	s	ı						
THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS WERE IN EFFECTOR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH IRMA OR ITS REMNANTS WAS AFFECTING THE AREA.								
COUNTIES INCLUDEDINLAND LEVYINLAND CITRUSSUMTER INLAND HERNANDOINLAND PASCOINLAND HILLSBOROUGHPINELLAS POLKINLAND MANATEEHARDEEHIGHLANDSINLAND SARASOTA DE SOTOINLAND CHARLOTTEINLAND LEECOASTAL LEVY COASTAL HERNANDOCOASTAL PASCOCOASTAL HILLSBOROUGH COASTAL MANATEECOASTAL SARASOTACOASTAL CHARLOTTE COASTAL LEE								
METAR OBSERVATIONS NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUT	ES	ı						
LOCATION ID MIN DATE/ MAX DATE/ PEAK DATE/ LAT LON PRES TIME SUST TIME GUST TIME DEG DECIMAL (MB) (UTC) (KT) (UTC) (KT) (UTC)								
Print Historical PSH Print Report Close								

Figure 28 - PSH View Historical Reports Dialog

Export/Import PSH Data and Report

Export

PSH could be optionally configured to export its data in xml file format and its report (text file) to a given location for users' backup purpose.

In "Program Configuration" setup dialog (Figure 2). Choose "Export To Directory" (by default, it is "None"), then pick either "Localization" or "User".

If "**Localization**" is selected, a "finalpsh.xml" file will be saved under /awips2/edex/data/utility/common_static/site/"site ID"/psh/product/"basin/"year"/"storm name" and updated with every save to hold PSH data for the current storm. Also, a "finalpsh.txt" file will be saved there when a "Transmit" is invoked.

If "**User**" is selected, you can pick your destination directory. Then data and report files will be saved under that directory with the same subdirectory structure as ".../psh/product/"basin/"year"/"storm name".

Import

The exported PSH data XML file could be imported into PSH generator.

Click "File" => "Import Product File", a file browser opens up. The default directory will be the "Export To Directory" specified in the "Program Configuration" setup dialog (Figure 2). Browse to subdirectory ".../psh/product/" and its basin/year/storm based subdirectories to locate the PSH storm XML you want to import. If the storm already exists in the database, you will be asked to confirm if you want to overwrite it.

The exported product file (finalpsh.txt) could be viewed via "File"=>"View Historical Reports".

Mixed Case Report

NWS is in the process to issue all text products in mixed-case format instead of uppercase format. Effort has been made in the migrated PSH for this capability to minimize the work needed in the future once a detailed requirement is available.

To activate "Mixed Case", check "**USE MIXED CASE**" in "**Program Configuration**" setup dialog (Figure 2, by default, it is unchecked) and "**Save**".

- All fixed non-data part in the report will use mixed case.
- All information retrieved from LSR will use mixed case (mainly, remarks). The user may need to edit them to correct the capitalization for county/city names. Note that the data saved before the "USE MIXED CASE" is turned on will still use uppercase.
- The stations for METAR/Non-Metar/Marine will use upper case. The user could configure all stations to mixed case instead.
- Manual input should use mixed case no effort is made to convert uppercase to mixed case.