FEWS Tools QGIS3 Plugin Release Notes

v 3.1.0

Date	May 30, 2023
Issues	3 issues

Important highlights from this release

1. Add GeoWRSI functionalities.
2. Add improvements for GeoCLIM functionalities based on the review comments from v3.0.19 release.
3. Bugfix – data download error

All updates for this release

Task

- Add updated English manual.
- Can define output prefix for all GeoCLIM tools
- Region Form – support GeoWRSI regions
- GeoWRSI
    - Define / add Crops
    - Define GeoWRSI settings
    - Run GeoWRSI
    - Define GeoWRSI output settings
    - GeoWRSI about page.
    - GeoWRSI manual

Bug

- Fix data download error
- Add missing color files in the default workspace template

v 3.0.19

Date	Jan 09, 2023

Issues	3 issues

Important highlights from this release

4. New English and Spanish manuals.
5. Bugfix - Download problem

All updates for this release

Task

- Add new and updated manual.

Bug

- Bugfix – Download failures.

v 3.0.18

Date	Aug 19, 2022
Issues	2 issues

Important highlights from this release

1. Bugfix - Open map in panel causing Composites error.
2. Add CHIRPS Daily date format YYYY.MM.DD

All updates for this release

Task

- Add CHIRPS Daily date format.

Bug

- Bugfix – Open map in panel causing Composites error.

v 3.0.17

Date	Jun 17, 2022

Issues	1 issue

Important highlights from this release

1. Bugfix for BASIICS station file creation crashing QGIS.

All updates for this release

Task

- N/A

Bug

- Bugfix – BASIICS station shapefile creation crashing QGIS.

v 3.0.16

Date	May 31, 2022
Issues	1 issue

Important highlights from this release

1. Rainfall summaries average sum fixed.
2. Fix SPI file extensions for alpha, beta and ProbofRain files.

All updates for this release

Task

- N/A

Bug

- Bugfix – Rainfall summary average sum fixed, fix SPI file extensions for alpha, beta and ProbORainLT files.

v 3.0.15

Date	May 24, 2022

Issues	3 issues

Important highlights from this release

1. Rainfall summaries single period allowed.
2. Allow .tif and .tiff rasters as inputs/outputs.
3. Add extract stats by point functionality.

All updates for this release

Task

- Allow .tif and .tiff as input/outputs.
- Extract stats – allow a point shapefile as input.

Bug

- Bugfix – Rainfall summary for a single dekad not working.

v 3.0.14

Date	Feb 04, 2022
Issues	5 issues

Important highlights from this release

1. pyqgis RasterCalculator exchanged for numpy arrays and math.
2. Fix for delimiter recognition problem in station csv files.
3. Handle bad station values in station csv files.

All updates for this release

Task

- BASIICS - Verify there are no empty station values in period of interest.
- BASIICS - Determine if the station data has garbage in the file.
- Dataset definition - Lock average file missing value and file suffix to the data file values.

Bug

- Bugfix - BASIICS - Station file delimiter is not recognized correctly.
- Bugfix - pyqgis raster calculator is not handling nodata pixels correctly.

v 3.0.13

Date	Sep 07, 2021
Issues	5 issues

Important highlights from this release

1. Changed SPI algorithm.

All updates for this release

Task

- Changed SPI algorithm.
- Add release notes to package, version the plugin file.

Bug

- Bugfix - Import archive unhandled exception
- Bugfix - Composites unhandled exception
- Bugfix - BASIICS MMK and MMP date formats

v 3.0.12

Date	Mar 11, 2021
Issues	1 issue

Important highlights from this release

1. Fix typo in database example.
2. Bugfix - pull years from basename instead of path.

All updates for this release

Bug

- Handle no input files error

v 3.0.11

Date	Mar 09, 2021
Issues	1 issue

Important highlights from this release

1. Fix mismatch between region and mask not stopping process.

All updates for this release

Bug

- After getting a region mismatch error, the process completes.

v 3.0.10

Date	Feb 25, 2021
Issues	1 issue

Important highlights from this release

1. Output directory initialization.

All updates for this release

Bug

- Output directory - does not update on initial install to use the default location.

v 3.0.9

Date	Feb 17, 2021
Issues	2 issues

Important highlights from this release

1. New manual.
2. Updated data download addresses.

All updates for this release

Task

- Get new manual into the package.
- Update geoclim_example.sqlite with https versions of dataset remote host and remote directory.

v 3.0.8

Date	Feb 03, 2021
Issues	7 issues

Important highlights from this release

1. New manual.
2. GUI tweaks.
3. Hide NetCDF.
4. Update example database with column additions.

All updates for this release

Bug

- Download date format problem.
- Climatological Analysis - crashes midway through Average run using cross years.

Task

- Hide NetCDF functionality for now.
- Fix places where code breaks if data file prefix is the same as average file prefix or if there are potential regex issues.
- Update example sqlite file with new columns and values.
- Combo box form controls that are locked, changed to locked line edits.
- Composites - don't reset years in composite form when analysis is changed.

v 3.0.7

Date	Jan 08, 2021
Issues	5 issues

Important highlights from this release

1. PET and Africa RFE downloads fixed.
2. Climatological Analysis seasonal averages fixed for temperature datasets.
3. Ability to change default output directory.

All updates for this release

Bug

- Climatological Analysis - PET and Temperature dataset problems.

Task

- Second map needs to load with a different style.
- Add functionality to change the 'default' output directory.
- PET data download manipulations.
- Update example database with PET entries, should be the same as the default datasets from VB tool.

v 3.0.6

Date	Dec 17, 2020
Issues	8 issues

Important highlights from this release

1. Update Composites formulas.
2. Handle file permission errors.
3. Display problems.

All updates for this release

Task

- Composites formulas adjusted.
- Climatological Analysis - Trend output loads with SPI color file always.
- BASIICS Form 2 - overlapping controls.
- Climatological Analysis – fix problem where empty layer is produced.
- Figure out how to handle permission errors when user has a file open and it can't remove it.
- Contour - handle Index Error on min data value.
- Climatological Analysis - display issues.

- Climatological analysis - SPI and Frequency analysis are giving unspecified error.

v 3.0.5

Date	Nov 18, 2020
Issues	3 issues

Important highlights from this release

1. Stations outside region stop blending process.
2. Update sqlite file with corrected values for default mask.
3. Download data for month and period of month formats fixed.

All updates for this release

Task

- Blending - stations outside of region extents still processed.
- Default database - review region mask and map entries and verify they are in the default workspace.
- Download data - file count breaks for file formats with month and period of month.

v 3.0.4

Date	Nov 18, 2020
Issues	8 issues

Important highlights from this release

1. Process inputs checking fix.
2. Update default sqlite with UCSB address changes.
3. Masking and zooming adjustments.

All updates for this release

Bug

- Rainfall summaries zoom is not correct with world files selected for smaller region.
- Composites problem - errors at end of process.
- Process input checking is not working in all cases.
- Fix inconsistent variable names for workspace setup.

Task

- Investigate/fix Composites differences.
- Remove masking from Blending, only use region info to clip outputs.
- Update example .sqlite file for UCSB ftp structure/url changes.
- If averages are missing for Rainfall summaries, open the Climatological Analysis tool so they can be created.

v 3.0.3

Date	Oct 13, 2020
Issues	13 issues

Important highlights from this release

1. BASIICS blending
2. Bug fixes from beta testing

All updates for this release

Bug

- Extract stats will run with no raster selected.
- BASIICS issue - missing data 'split' map issue.
- Climate composites issues.
- Fix label when switch between rainfall and temperature datasets.
- Archive creation - incorporate the _datasets file.
- Region copy issues.

Task

- Contours - round down to match the VB tool outputs.
- Update color files.
- Instead of zooming to the map layer extents, outputs should zoom to the region extents.
- Climatological Analysis – when updating ds averages, do not load outputs to map panel.
- BASIICS - only load the latest 3 outputs and add two outputs.
- Add dialogs to processes to indicate when they are complete.
- Remove the "Mask" tab from the Settings window and move the "import mask from vector" to the Define Region form.

v 3.0.2

Date	Jul 24, 2020
Issues	1 issue

Important highlights from this release

1. Fix but where nodata was not being set for extract stats, so a masked file would give negative averages.

All updates for this release

Bug

- Extract stats is giving negative values

v 3.0.1

Date	Jul 16, 2020
Issues	6 issues

Important highlights from this release

1. Applies color files.
2. Adds logging and message dialogs when exceptions are hit.
3. Will keep trying remaining downloads if a url error is encountered.

All updates for this release

Bug

- Contours - force user to change interval to a non-zero unsigned integer.
- Extract stats – Functionality fixed.
- Download data - if bad file is encountered, it should still try remaining files.

Task

- View Available data - adjust the default dataset load to match the other tools
- Add dialogs to inform user of critical exceptions and confirm on user cancellations
- Verify color files

v 3.0.0

| **Date** | Jul 7, 2020 |

Important highlights from this release

1. First release of QGIS3 FEWS Tools Plugin GeoCLIM functionality to regional scientist beta testers.