

What's New with AERmodels

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The development of AERmodels (previously ERCBmodels) for flaring and incineration follows (note, several internal version may be developed but not necessarily released):

ABlare.xlsm

Version 1.03.170609

- Bug corrections and updates throughout
- Added DoForEach list processing throughout in user interface to assist in multi-year processing
- Added Domain coordinates to iCOMMON page
- Added map of MM5 coordinates and automatic Coordinates selection to STEP0A CALMET page. Includes user editable coordinates for extraction.
- Added auto-extraction of MM5
- Updated the Create User Receptor file to match AERflare. Includes read DEM, read user xy receptor list, read user XYZ dem file, read user fenceline file, fill fence line, read sources list (to ensure higher resolution receptors are selected with 500m of all sources).
- Added checks on Step1-Metseries to ensure extraction elevations are the same as stack heights on the Step2-ABflare page
- Updated GetFromAERflare processing
- Updated CALMET and CALPUFF default file and settings to match current CALPUFF release
- Updated the ABflare combustion calculations to match changes in AERflare including flare assist and equations of state updates

Version 1.03.161103

- Displayed units for QTOTAL total volume to be flared, STEP2-ABFLARE cell E77, was shown as e3m3/d but should be e3m3.

Version 1.02.160912

- Updated the iBIN page with the new URL of the DEM and LCC data. The field has been change from write protected to user editable.
- Corrected the display of the longitude and latitude on the Step 0b-Receptor page. The utmx/y and lat/long both point to the centre of the domain.
- Corrected writing of CALPUF.inp file bugs for variable NFL2; for exception variable SO2 which can appear more than once and there requires knowing what appears directly before it; METDAT which can write several lines of the same variable

Version 1.02.160613

- Update of ABflare for new CALPUFF 7.x input files

Version 1.02.151005

- Corrected how the LCC.dat file is written to file. The values were written using integer components and therefore the fractional LCC was incorrectly recorded as either 1.0 or 0.0.

Version 1.02.150616

- Corrected reference to old range name on iCOMMON for Datum dropdown selector
- LU.dat used fixed NAR-B datum during test. Changed back to read the datum from iCOMMON.

Version 1.02.150611b

- Corrected missing PtrSafe for DLL call

Version 1.02.141112

- Correction to the print out of LU.dat file. The LU.dat subsampling resulted in an apparent shift of the LU.dat.

Version 1.02.140619

- Updated links to AERflare: NOTE MUST USE worksheet reference, although the range names are workbook referenced the worksheet names are redundant and but must use updated changes for flare_fuelgas, well_lift, and flare_assist from 1=no,2=yes to 1=yes,2=no
- Bug fixes

ABflare Version 1.02.140302

- Release version

ABflare Version 1.01.

- Release candidate version