



Software suites for project DESMEX-II



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Abstract

In order to optimize the data-processing workflow in DESMEX-II, a software suite was developed to improve the use of available processing code (Becken *et al.*, 2020). More than just a graphical user interface (GUI), software offers several tools not previously available. Furthermore, the acquired knowledge inspired a second software suite based exclusively in open-source libraries

DESMEX-Suite (Matlab)

- Works as an input/output layer for EMTS code (Becken *et al.*, 2020).
- New tools were developed for flightlines selection and FC's selection.

- Multiple visualization tools for every processing stage.

A new, fully open-source version: DESMEX-PY (Python)

Besides common Python libraries (Numpy, Scipy, etc.), our software uses the following open-source libraries:

- PyIGRF
- Pyftw
- UTM
- Razorback

