

SFIT Processing Environment

Introduction

Please use the latest version of the core code and processing environment at [SFIT4 Version 1.0.xx Release](#)

The sfrit processing environment is the machinery surrounding the sfrit core code, which allows for:

- [Pre-processing](#)
 - Pre-processing involves creating the spectral database file which has meta-data regarding a spectral observation, extracting relevant HITRAN line lists, and preparing ZPTW (altitude, pressure, temperature, water) profile data from other sources such as NCEP is also part of the pre-processing step.
- [Multiple and single spectra processing](#)
 - The processing step involves running the actual SFIT core code to obtain retrievals. This can be done on a single observation or for multiple observations.
- [Post-processing](#)
 - The post-processing step involves plotting and analyzing the results of one or more retrievals.

The majority of the processing environment is written in python, while some codes are written in C and IDL. Please see the [Installing Supporting Software](#) page for instructions on how to download and install the necessary programs.