System for Integrating Multi-platform Data to Build the Atmospheric Column (SIMBA) Tutorial
Current Version: V1.6

For more info see Wingo et al. (2018):

Wingo, S. M., W. A. Petersen, P. N. Gatlin, C. S. Pabla, D. A. Marks, and D. B. Wolff, 2018: The System for Integrating Multi-platform data to Build the Atmospheric column (SIMBA) precipitation observation fusion framework. JTECH. doi: 10.1175/JTECH-D-17-0187.1

Step 1: File and Dependencies

- Download and extract SIMBA files
- Good place to start: README_SIMBAv1.6_START_HERE.txt
- SIMBA requires Radx gridding tool
- Make sure you download and install RSL in IDL v1.8
- IDL path should include directories for
  - RSL_in_IDL
  - GPM_tools (included in the dependencies directory provided in the package)
  - All SIMBA dependencies provided in the package

Step 2: Set Directory File Paths

- In the main, top level procedure (build_column.pro), make sure the paths are set for each of the following:
  - Input data files
  - Output directory
  - Radx params directory
  - Radx full grid directory
  - Combined D3R volume files

Step 2: Set Directory File Paths Continued…

- Data files included in the package are from GPM OLYMPEX overpass case 2015-1203
- All the input data files are located in ./ SIMBA_v1.6.1/eg_input_data_files/ directory
- Example output files are located in ./ SIMBA_v1.6.1/eg_output_column_files/ directory
- Output format is described in the .pdf (last link under Documentation) on the website

Step 3: Run SIMBA and produce output

- Make sure all paths for input data are updated
- Compile and run build_column.pro
- An output column netCDF file should be created in your desired output directory