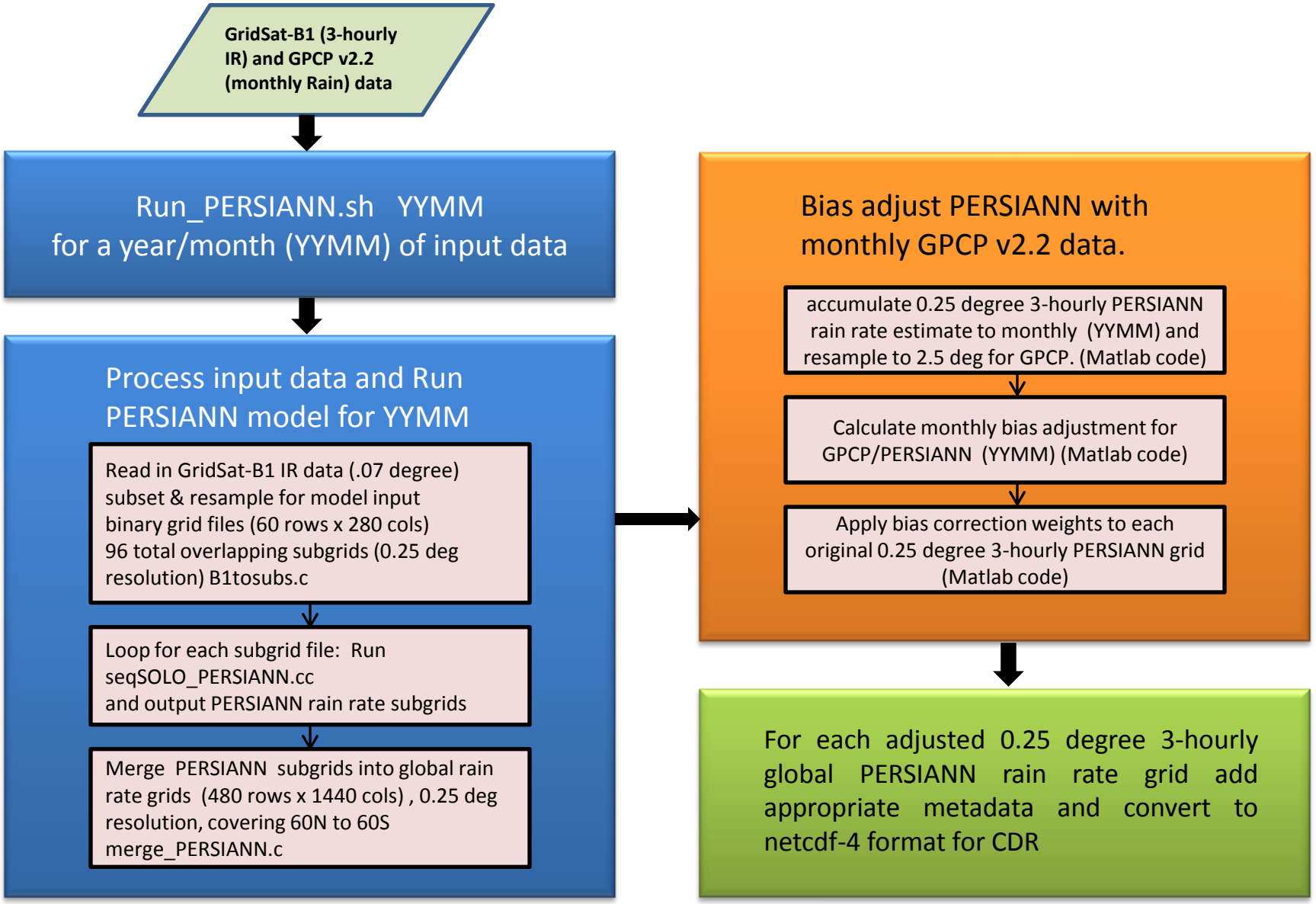
GridSat-B1 (3-hourly IR) and GPCP v2.2 (monthly Rain) data
Run_PERSIANN.sh YYMM
for a year/month (YYMM) of input data
Process input data and Run PERSIANN model for YYMM
Read in GridSat-B1 IR data (.07 degree) subset & resample for model input binary grid files (60 rows x 280 cols) 96 total overlapping subgrids (0.25 deg resolution) B1tosubs.c
Loop for each subgrid file: Run seqSOLO_PERSIANN.cc and output PERSIANN rain rate subgrids
Merge PERSIANN subgrids into global rain rate grids (480 rows x 1440 cols) , 0.25 deg resolution, covering 60N to 60S merge_PERSIANN.c
Bias adjust PERSIANN with monthly GPCP v2.2 data.
accumulate 0.25 degree 3-hourly PERSIANN rain rate estimate to monthly (YYMM) and resample to 2.5 deg for GPCP. (Matlab code)
Calculate monthly bias adjustment for GPCP/PERSIANN (YYMM) (Matlab code)
Apply bias correction weights to each original 0.25 degree 3-hourly PERSIANN grid (Matlab code)
For each adjusted 0.25 degree 3-hourly global PERSIANN rain rate grid add appropriate metadata and convert to netcdf-4 format for CDR