This is my code

Keep everything in the code same only add new part at the bottom

If blending\_rules= "replace"

Then replace varname\_FLUX with varname\_ERA5 and add it as new column with name varname\_FLUX\_replace

If blending\_rules= "lm"

then fit a linear regression such that varname\_FLUX is x variable and varname\_ERA5 is y variable and then use slope and intercept to predict varname\_ERA5 and add that predicted value as a new column name varname\_lm

If blending\_rules: " lm\_no\_intercept "

then fit a linear regression such that varname\_FLUX is x variable and varname\_ERA5 is y variable and then use slope without intercept to predict varname\_ERA5 and add that predicted value as a new column with name varname\_lm\_no\_intercept

If blending\_rules: " automatic "

then fit a linear regression such that varname\_FLUX is x variable and varname\_ERA5 is y variable and then use slope and intercept to predict varname\_ERA5 and use that predicted value to fill nans varname\_FLUX and after filling nans add that filled column as a new column name varname\_automatic

show the new data set name df\_merge\_ERA5\_FLUX after adding all these new columns

replace nans in varname\_FLUX with

filename\_FLUX, filename\_ERA5,

varname\_FLUX, varname\_ERA5,

blending\_rules

blending\_rules: "replace", "lm", "lm\_no\_intercept", "automatic"