**Notes for Rate\_corrections - Rproj: Gasera results:**

1. **Amount of alternative models:**

* Each gas must always have these 4 additional columns:
  + Gas\_model: The one chosen from all alternatives (Original, No flux, Alt\_i)
  + Gas\_flux\_ COR: Original, 0 or alternative model’s rate.
  + Gas\_R2\_ COR: Original, 0 or alternative model’s R2.
  + Gas\_p\_ COR: Original, 0 or alternative model’s rate.
* Each gas should have **3**\*(length(Time\_step)) columns:
  + Gas\_flux\_Alt\_i: Each model’s flux removing the I Time\_step.
  + Gas\_R2\_Alt\_i: Each model’s flux removing the I Time\_step.
  + Gas\_p\_Alt\_i: Each model’s flux removing the I Time\_step.

Then, if length(Time\_step) is different for Date-Rep (“Code”) combinations, the added columns should be the max(length(Time\_step)). For “Code” with lower length(Time\_step), these additional columns should be filled with NA.

This is achieved by:

> max\_length <- (**12** + **3**\*length(unique(Gasera\_results$Time\_step))) # See Notes file in /data

> new\_col\_names <- paste0("new\_col", 1:max\_length)

> Emission\_rates\_COR[new\_col\_names] <- NA

12 = 3 gases (CH4, N2O, CO2) \* 4 additional columns