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N'hésite pas si tu as des questions.

A+

Le Bien.

#### Environnemental variables:

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- 1- **GEDI RH98** = canopy height measured from best quality filtered shots (25 m resolution) over savanna. We only considered pixels sure that we only consider data from woodlands and savanna.
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<https://doi.org/10.1002/fee.2585>

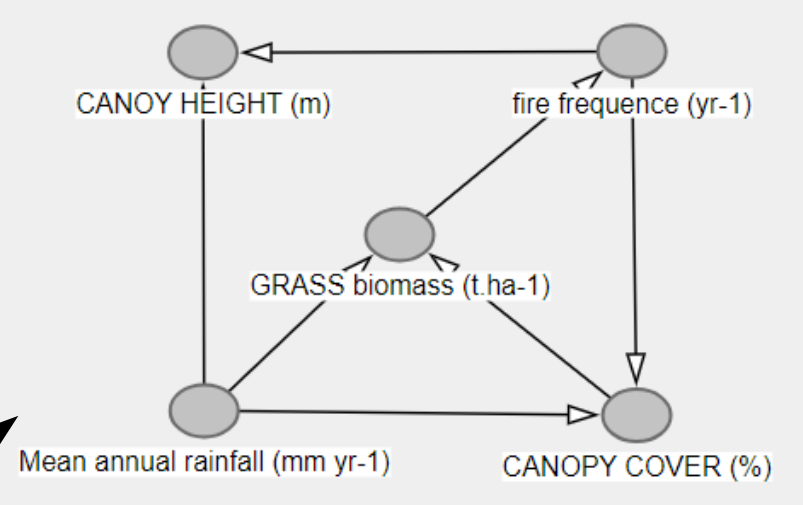
Sankaran, M., Hanan, N., Scholes, R. et al. Determinants of woody cover in African savannas. Nature 438, 846–849 (2005). <https://doi.org/10.1038/nature04281>

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#### Testable implications

The model implies the following conditional independences:

- CANOPY COVER (%)  $\perp$  CANOY HEIGHT (m) | Mean annual rainfall (mm yr-1), fire frequency (yr-1)
- CANOY HEIGHT (m)  $\perp$  GRASS biomass (t.ha-1) | Mean annual rainfall (mm yr-1), fire frequency (yr-1)

#### Model code

```
dag {  
  bb="0,0,1,1"  
  "CANOPY COVER (%)"  
    [pos="0.528,0.613"]  
  "CANOY HEIGHT (m)"  
    [pos="0.173,0.300"]  
  "GRASS biomass (t.ha-1)"  
    [pos="0.334,0.457"]  
  "Mean annual rainfall (mm yr-1)"  
    [pos="0.174,0.609"]  
}
```

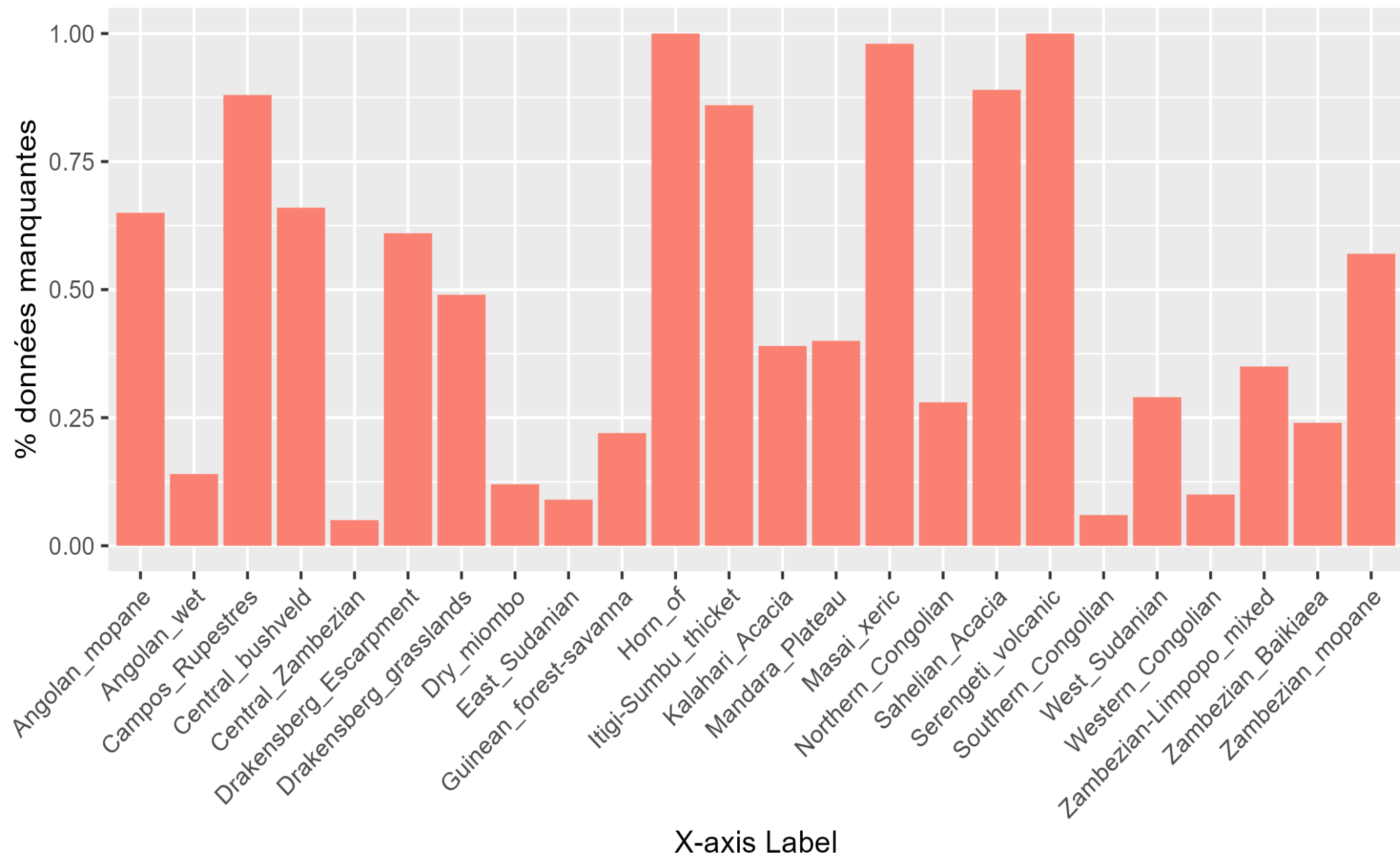
#### Summary

**Model contains cycle:**  
**CANOPY COVER (%)**→**GRASS biomass (t.ha-1)**→**fire frequency (yr-1)**→**CANOPY COVER (%)**

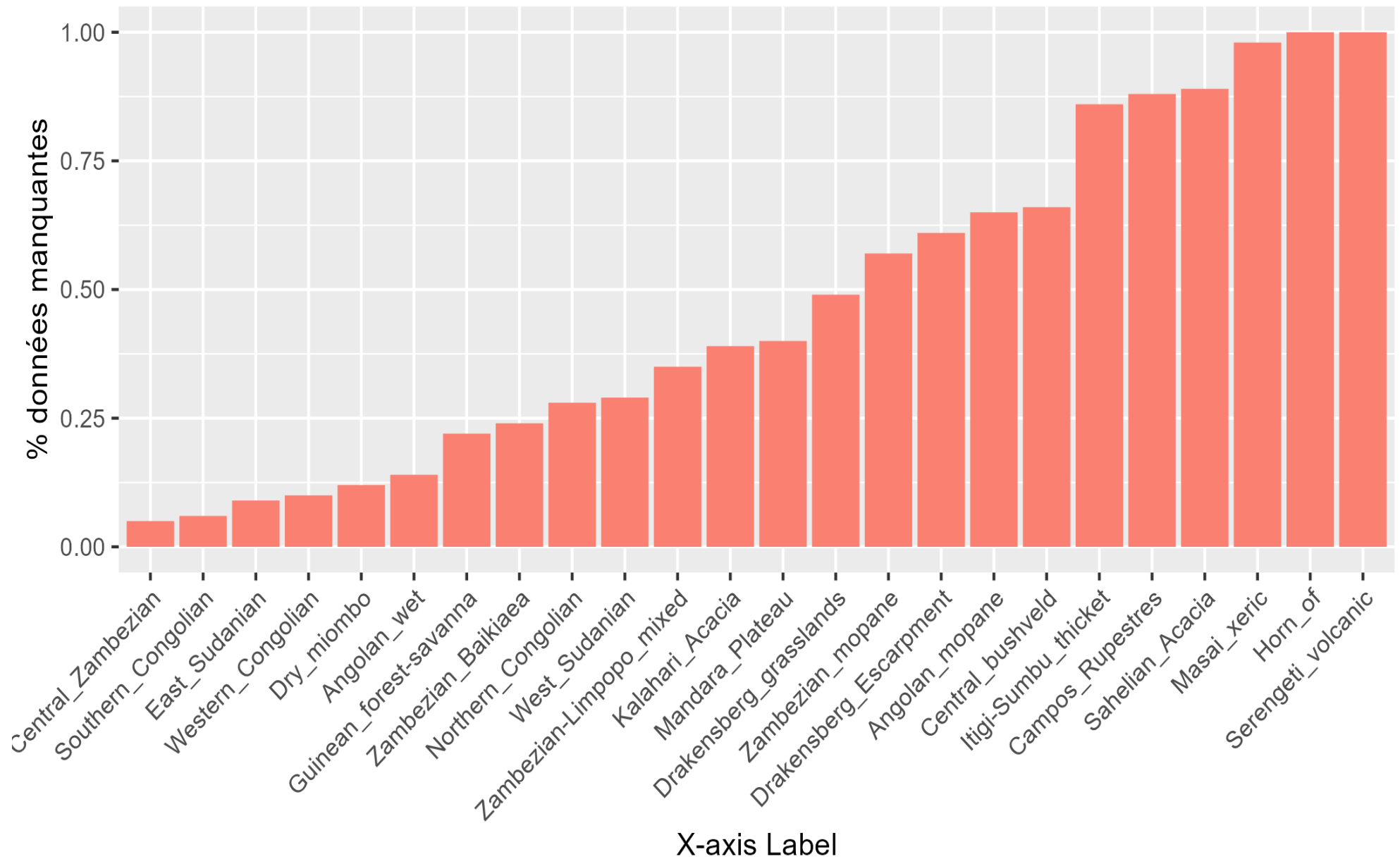
```
> dir()
[1] "Angolan_mopane.fst"      "Angolan_wet.fst"      "Campos_Rupestres.fst"
[4] "Central_bushveld.fst"    "Central_Zambezian.fst" "Drakensberg_Escarpment.fst"
[7] "Drakensberg_grasslands.fst" "Dry_miombo.fst"      "East_Sudanian.fst"
[10] "Guinean_forest-savanna.fst" "Horn_of.fst"          "Itigi-Sumbu_thicket.fst"
[13] "Kalahari_Acacia.fst"     "Mandara_Plateau.fst"  "Masai_xeric.fst"
[16] "Northern_Congolian.fst"   "Sahelian_Acacia.fst"  "Serengeti_volcanic.fst"
[19] "Southern_Congolian.fst"   "West_Sudanian.fst"    "Western_Congolian.fst"
[22] "Zambezian-Limpopo_mixed.fst" "Zambezian_Baikiaea.fst" "Zambezian_mopane.fst"
```

	x	y	rh98	canopy_cover	fire_freq	mean_precip	cv_rainfall	eff_rainfall	mean_temp	temp_range	ecoregion
1	37.00048	14.26637	5.982667	0.028192833	NA	723.4141	0.1426200	408.4453	27.65563	39.20422	East_Sudanian
2	37.00048	14.26412	3.955000	0.009793250	NA	723.4141	0.1426200	408.4453	27.65563	39.20422	East_Sudanian
3	37.00048	14.26188	5.516917	0.036079351	NA	723.4141	0.1426200	408.4453	27.65563	39.20422	East_Sudanian
4	37.00273	14.26188	2.362500	0.000000000	NA	736.2011	0.1401428	421.2323	27.65563	39.20422	East_Sudanian
5	37.00048	14.25963	7.982583	0.067758726	0.5789474	723.4141	0.1426200	408.4453	27.65563	39.20422	East_Sudanian
6	37.00273	14.25739	6.243066	0.051658304	0.5789474	736.2011	0.1401428	421.2323	27.65563	39.20422	East_Sudanian
7	37.00498	14.25739	3.649250	0.005104925	0.4210526	736.2011	0.1401428	421.2323	27.65563	39.20422	East_Sudanian
8	37.00273	14.25514	5.696667	0.027369666	0.5789474	736.2011	0.1401428	421.2323	27.65563	39.20422	East_Sudanian
9	37.00498	14.25514	4.800551	0.021938594	0.2631579	736.2011	0.1401428	421.2323	27.65563	39.20422	East_Sudanian
10	37.00498	14.25289	4.807361	0.023310125	0.5789474	736.2011	0.1401428	421.2323	27.65563	39.20422	East_Sudanian
11	37.00048	14.25065	7.596666	0.051529834	0.6315789	723.4141	0.1426200	408.4453	27.65563	39.20422	East_Sudanian
12	37.00498	14.25065	6.462917	0.029497749	0.6315789	736.2011	0.1401428	421.2323	27.65563	39.20422	East_Sudanian
13	37.00722	14.25065	8.828167	0.062860383	0.6315789	736.2011	0.1401428	421.2323	27.65563	39.20422	East_Sudanian
14	37.00048	14.24840	8.148000	0.070121550	0.7368421	760.8568	0.1408722	461.4591	27.00262	38.99936	East_Sudanian
15	37.00273	14.24840	10.210000	0.149196750	0.6315789	769.7281	0.1392486	470.3304	27.00262	38.99936	East_Sudanian
16	37.00498	14.24840	7.349333	0.060823599	0.6842105	769.7281	0.1392486	470.3304	27.00262	38.99936	East_Sudanian
17	37.00048	14.24616	6.503056	0.065599903	0.7368421	760.8568	0.1408722	461.4591	27.00262	38.99936	East_Sudanian
18	37.00273	14.24616	6.890729	0.073749000	0.6842105	769.7281	0.1392486	470.3304	27.00262	38.99936	East_Sudanian
19	37.00722	14.24616	3.480000	0.000000000	0.6842105	769.7281	0.1392486	470.3304	27.00262	38.99936	East_Sudanian
20	37.00947	14.24616	5.408594	0.025604832	0.7368421	769.7281	0.1392486	470.3304	27.00262	38.99936	East_Sudanian
21	37.00048	14.24391	5.723690	0.035549358	0.6842105	760.8568	0.1408722	461.4591	27.00262	38.99936	East_Sudanian
22	37.00273	14.24391	3.923333	0.002112929	0.6842105	769.7281	0.1392486	470.3304	27.00262	38.99936	East_Sudanian
23	37.00498	14.24391	3.820000	0.001467042	0.7368421	769.7281	0.1392486	470.3304	27.00262	38.99936	East_Sudanian

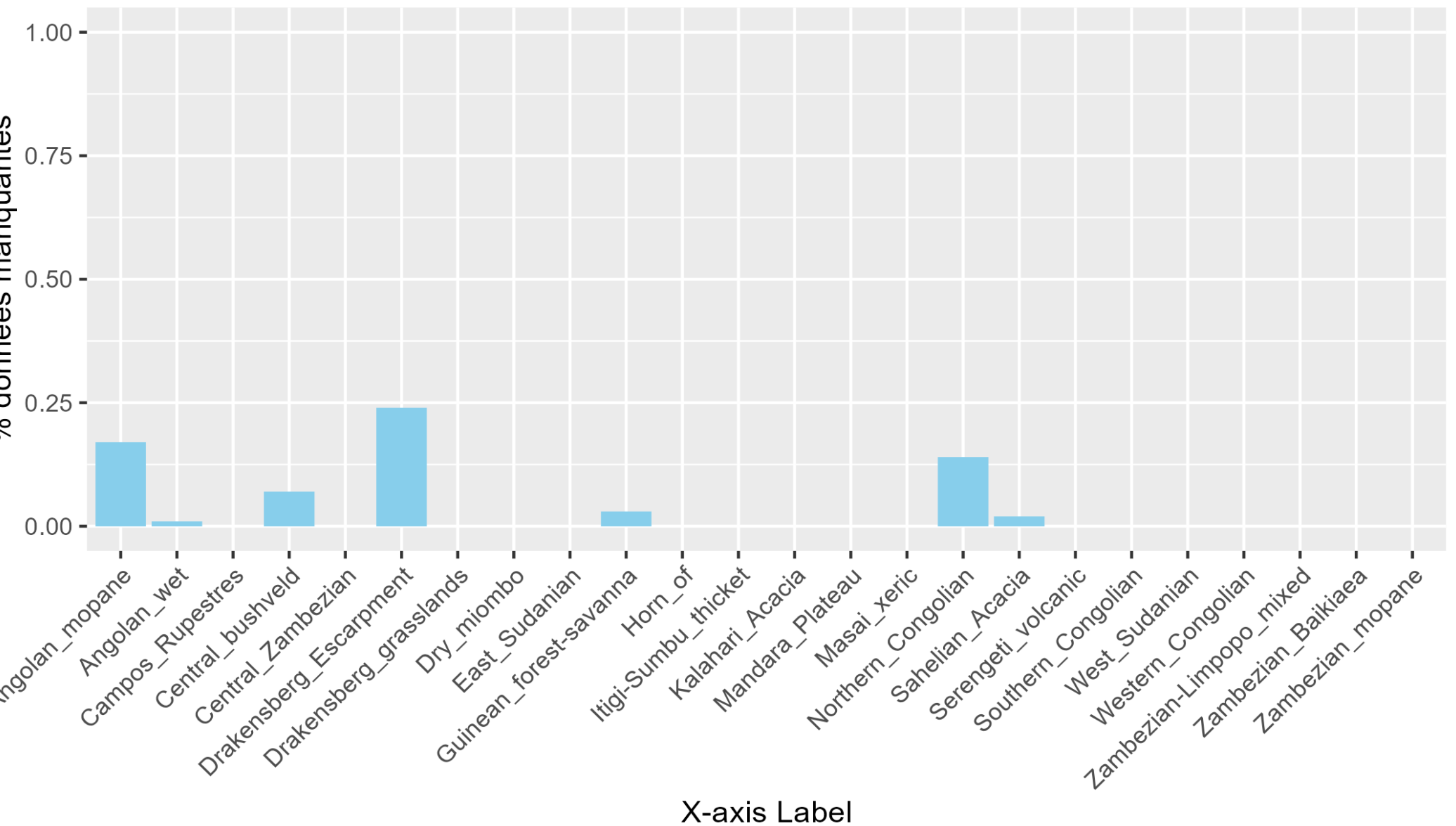
# Pourcentage de données manquantes fréquence de feu



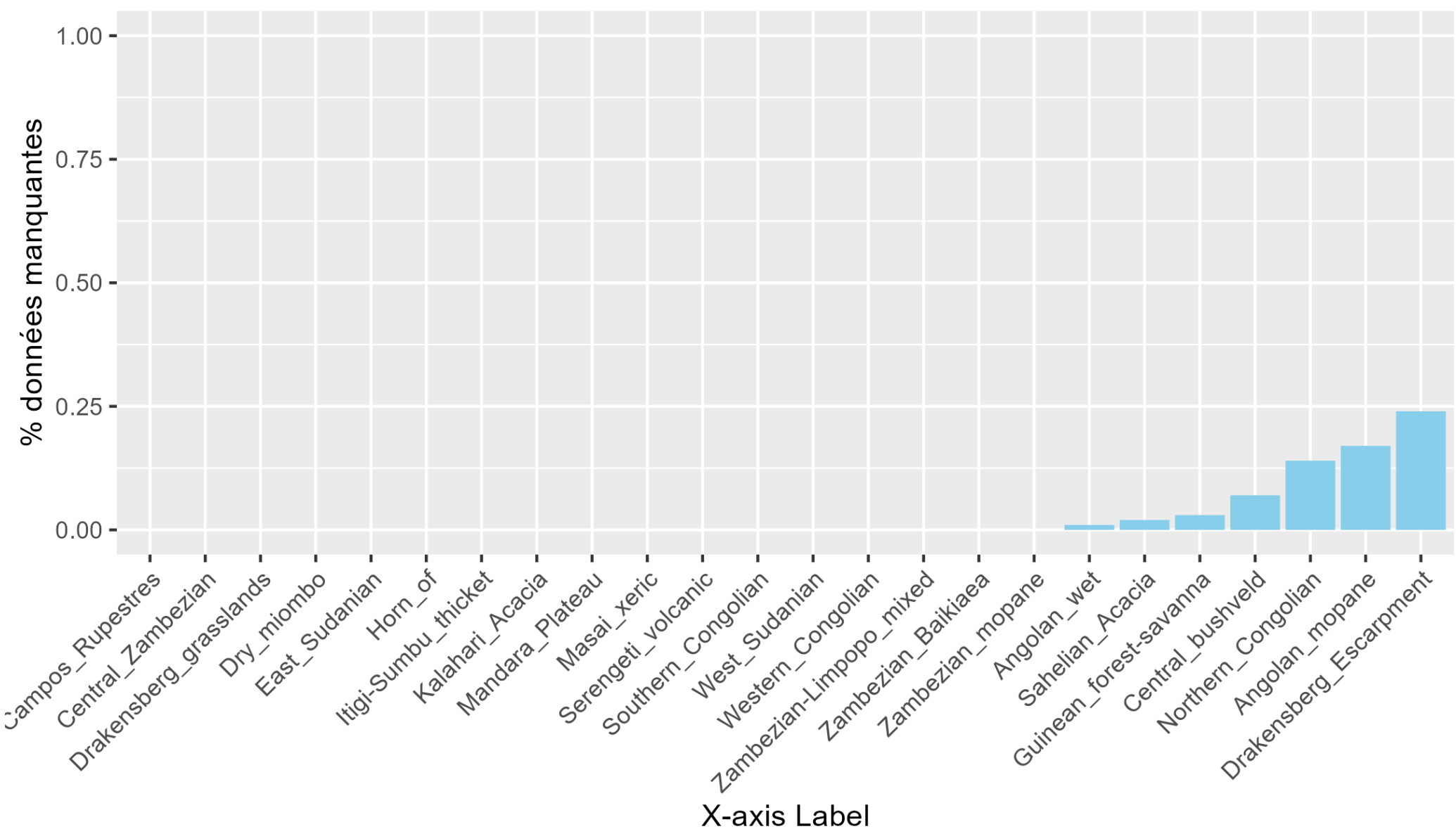
Pourcentage de données manquantes fréquence de feu



## Pourcentage de données manquantes pluie moyenne annuelle

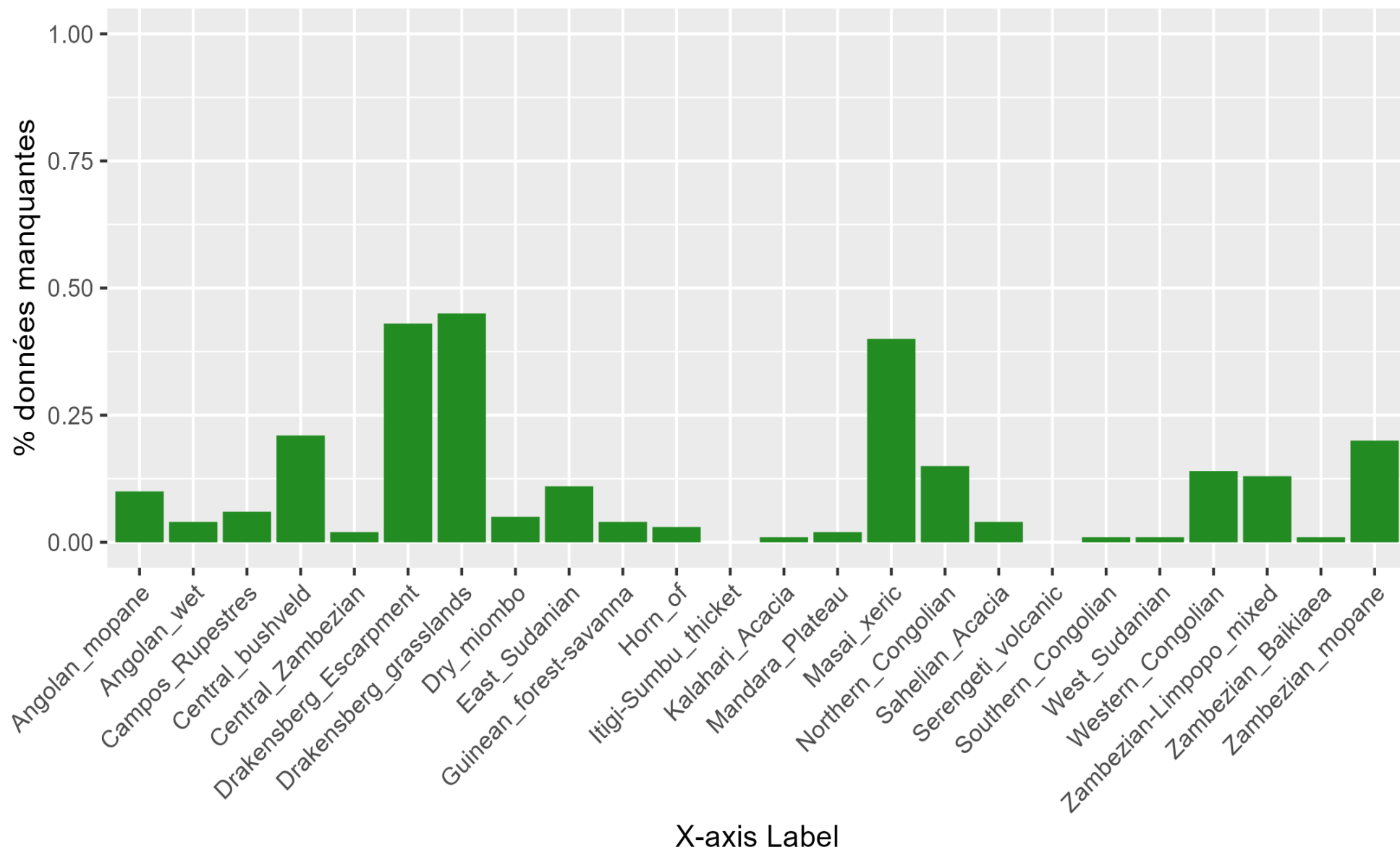


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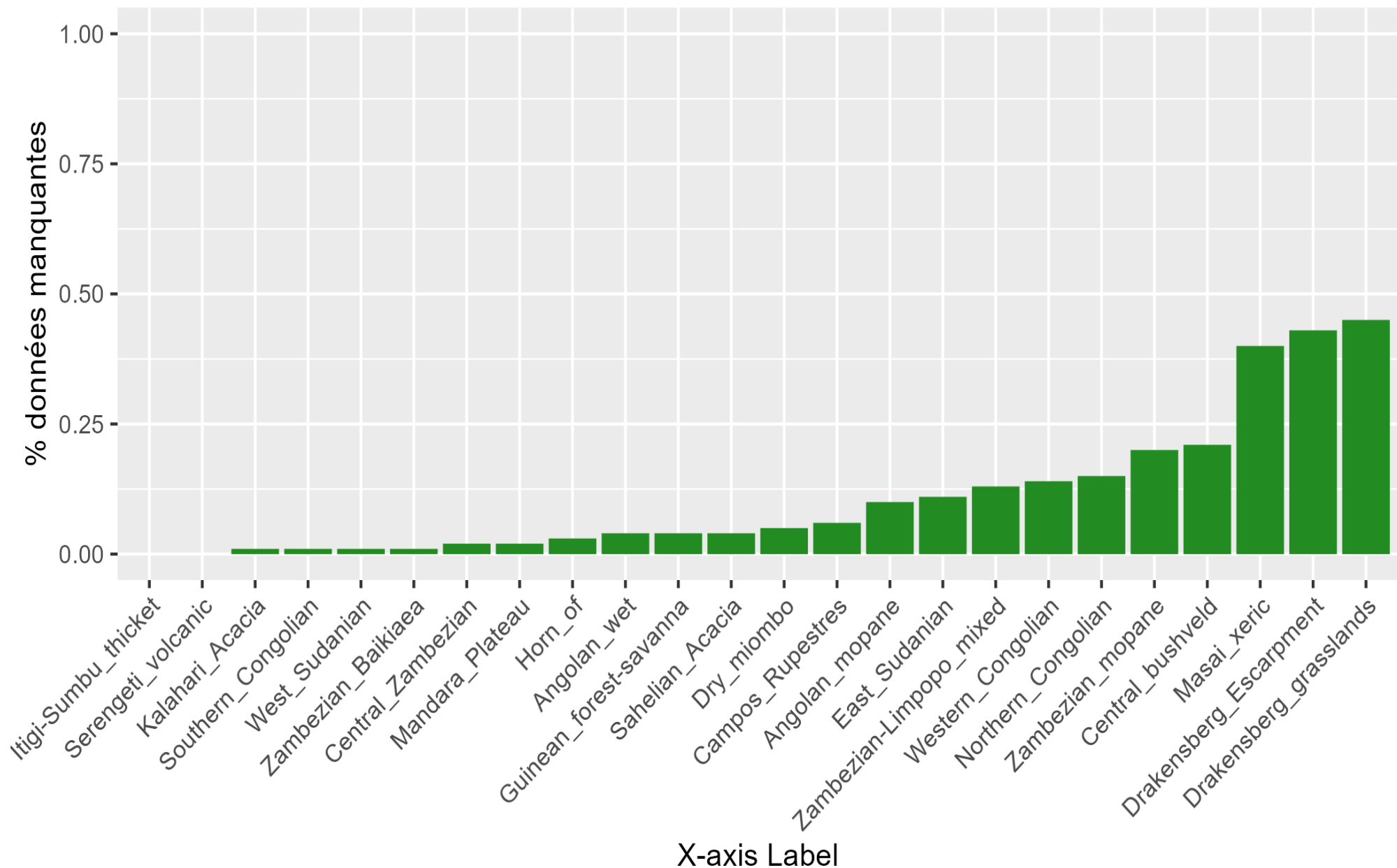




Pourcentage de données manquantes canopy\_cover

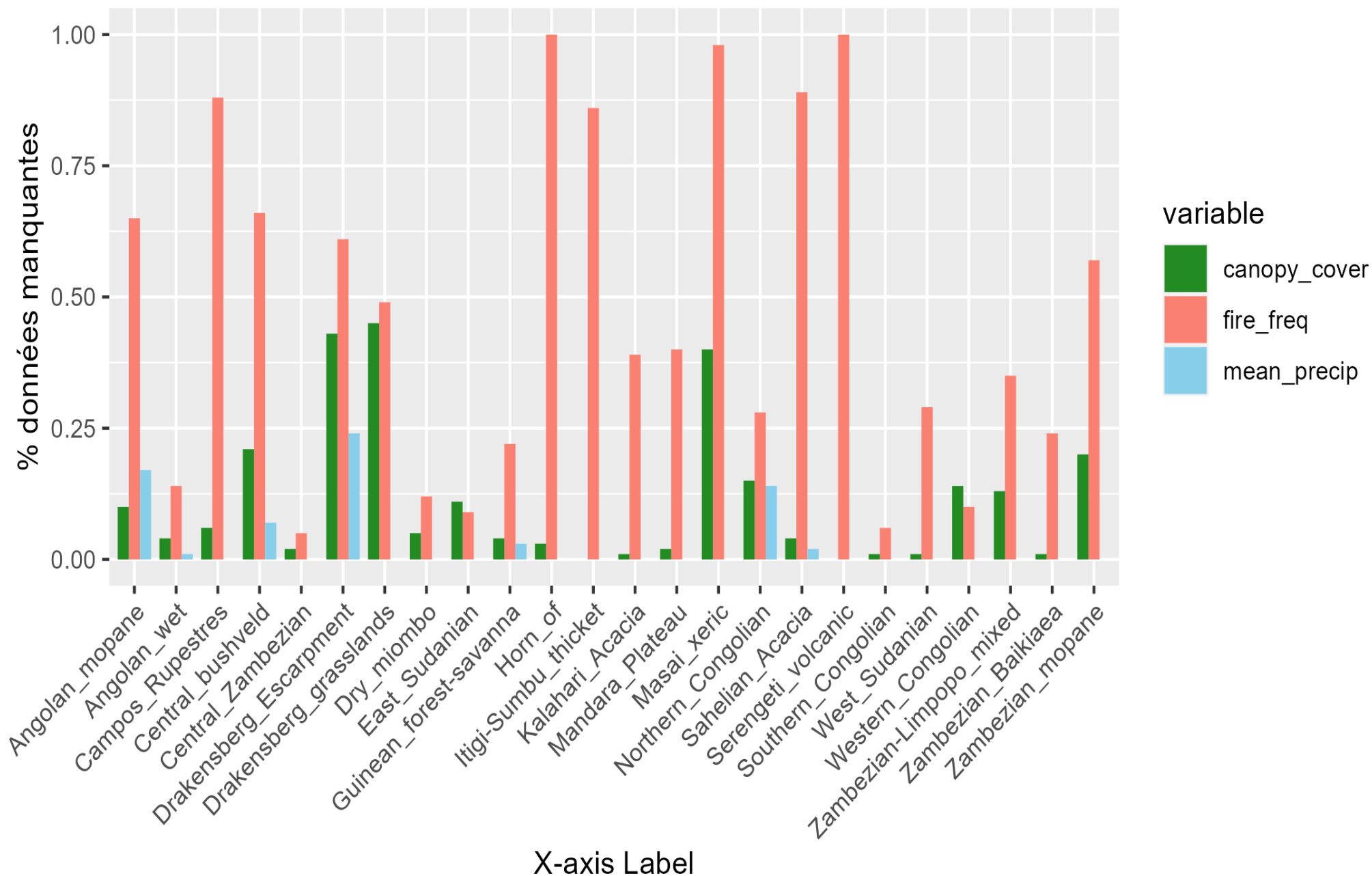


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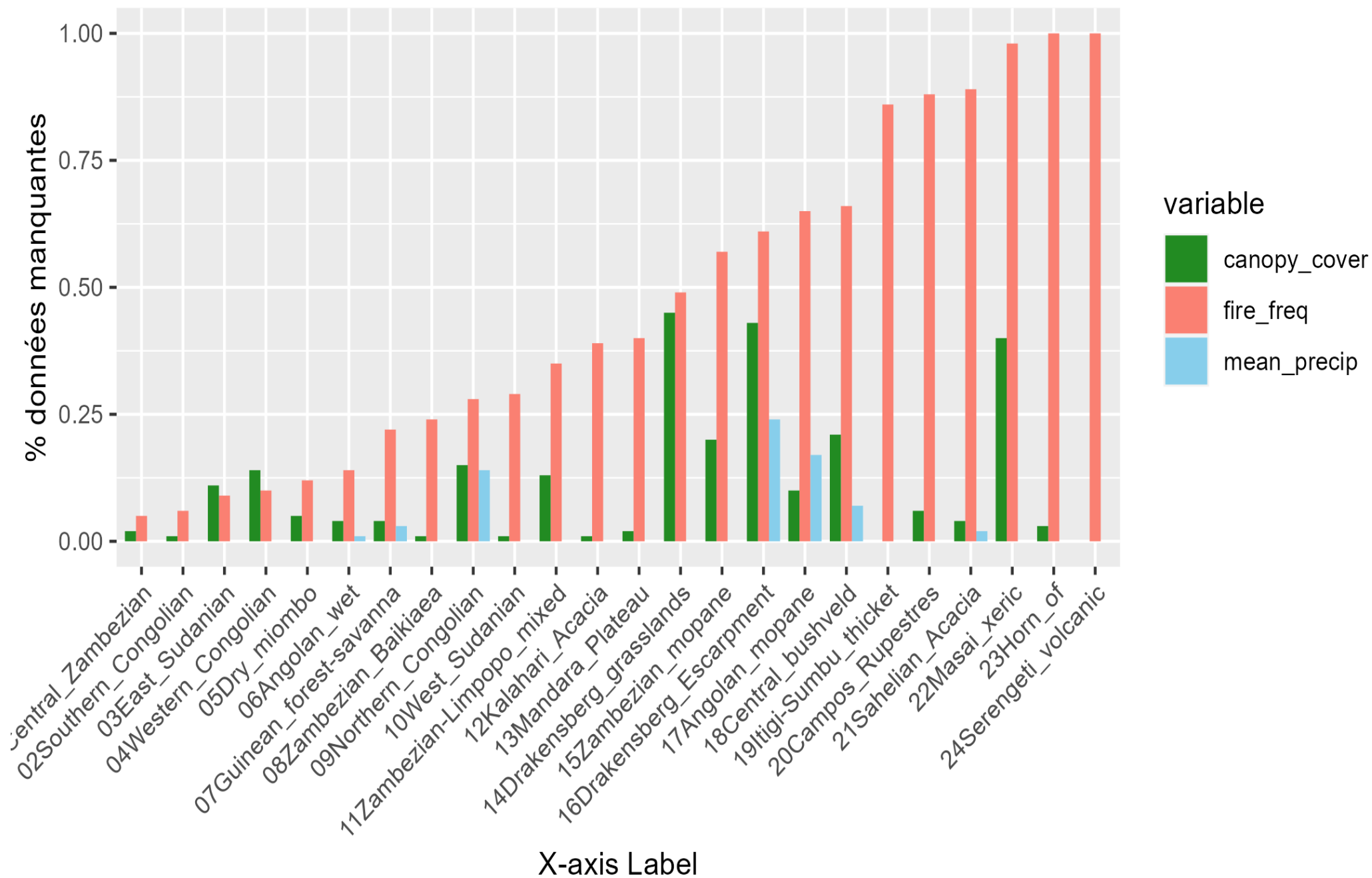


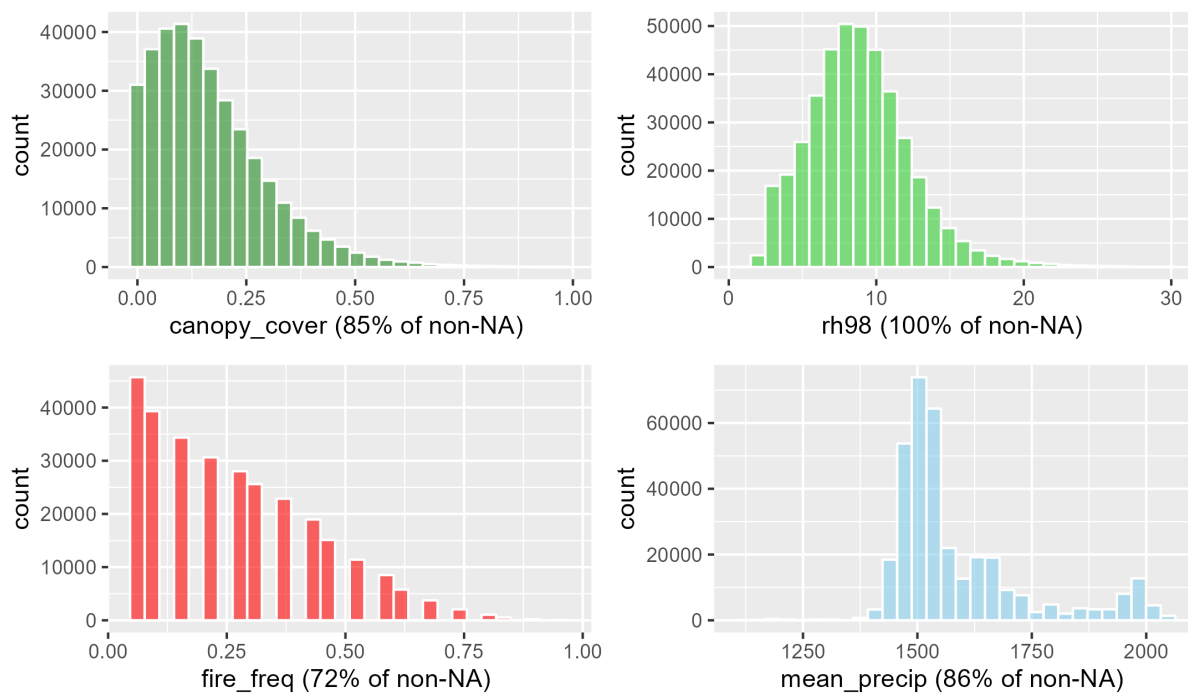


Pourcentage de données manquantes feu + pluie + canopy\_cover

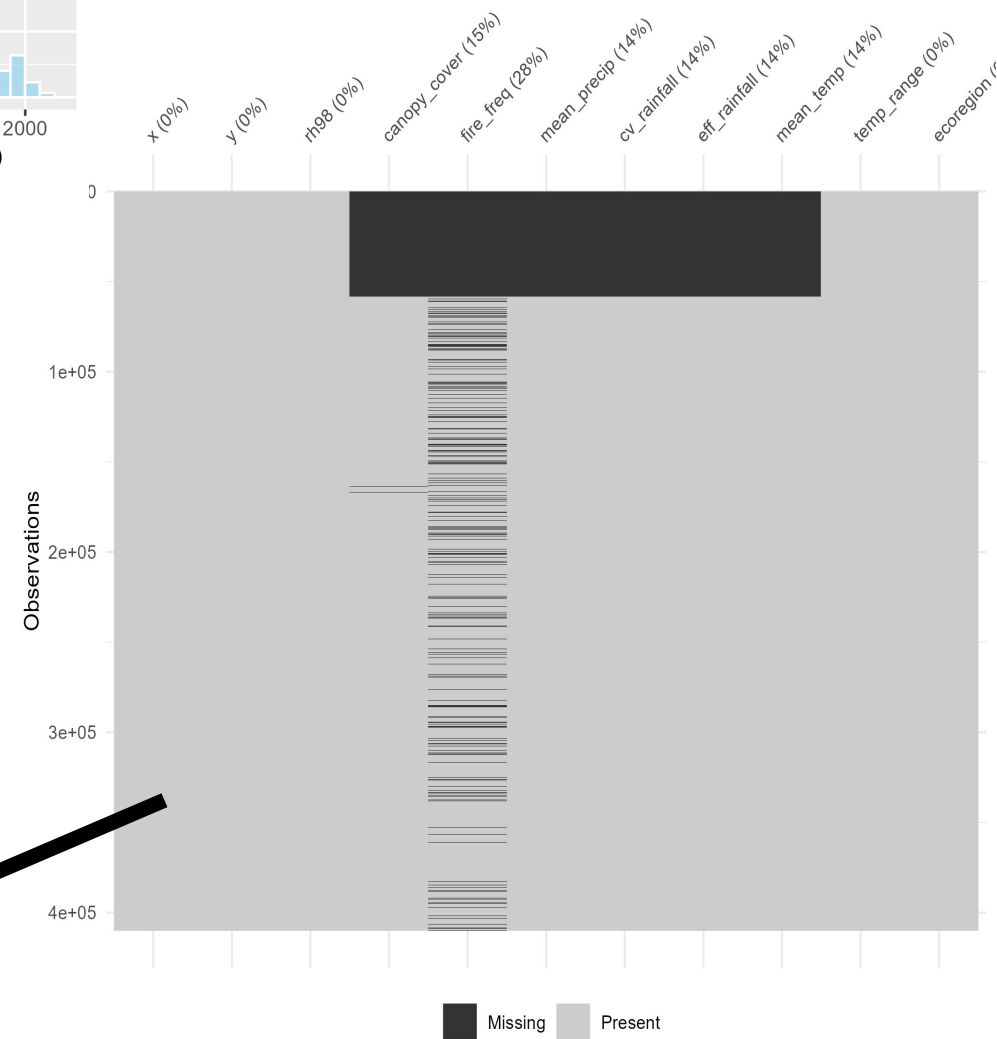
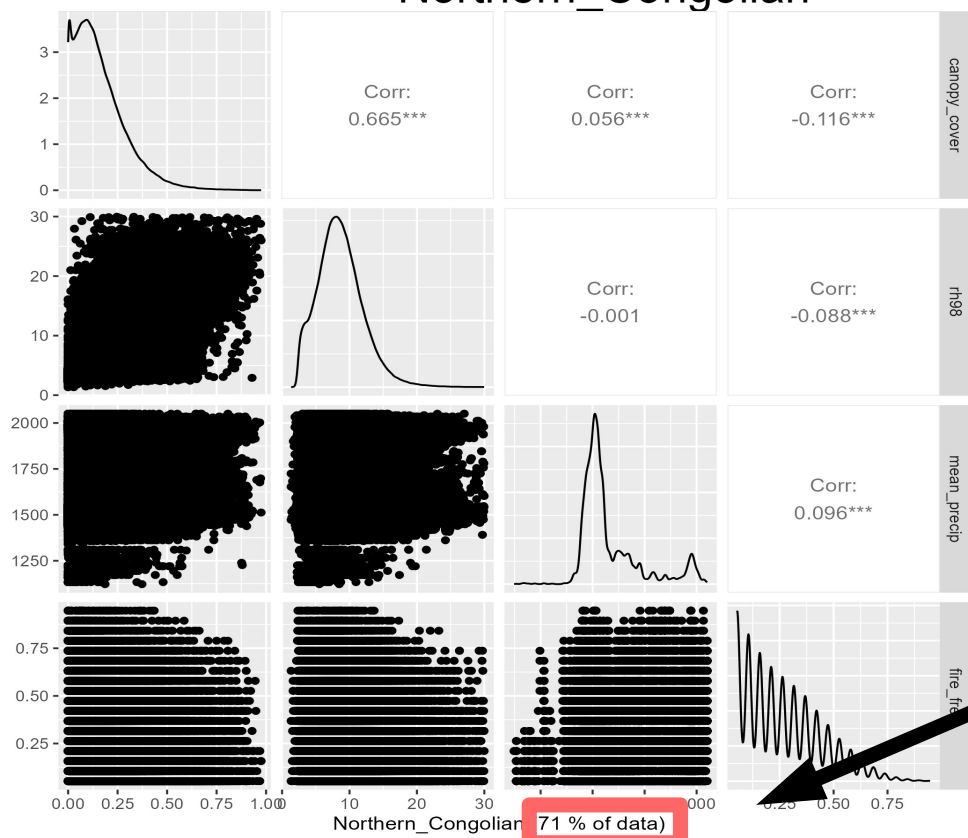


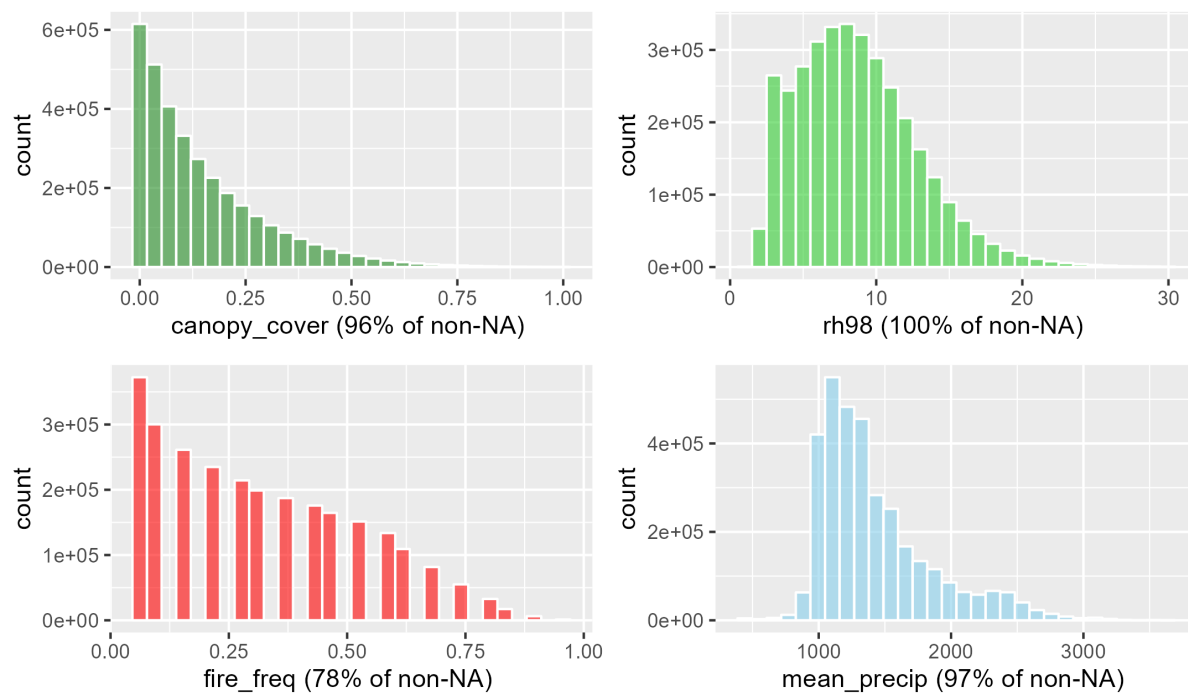
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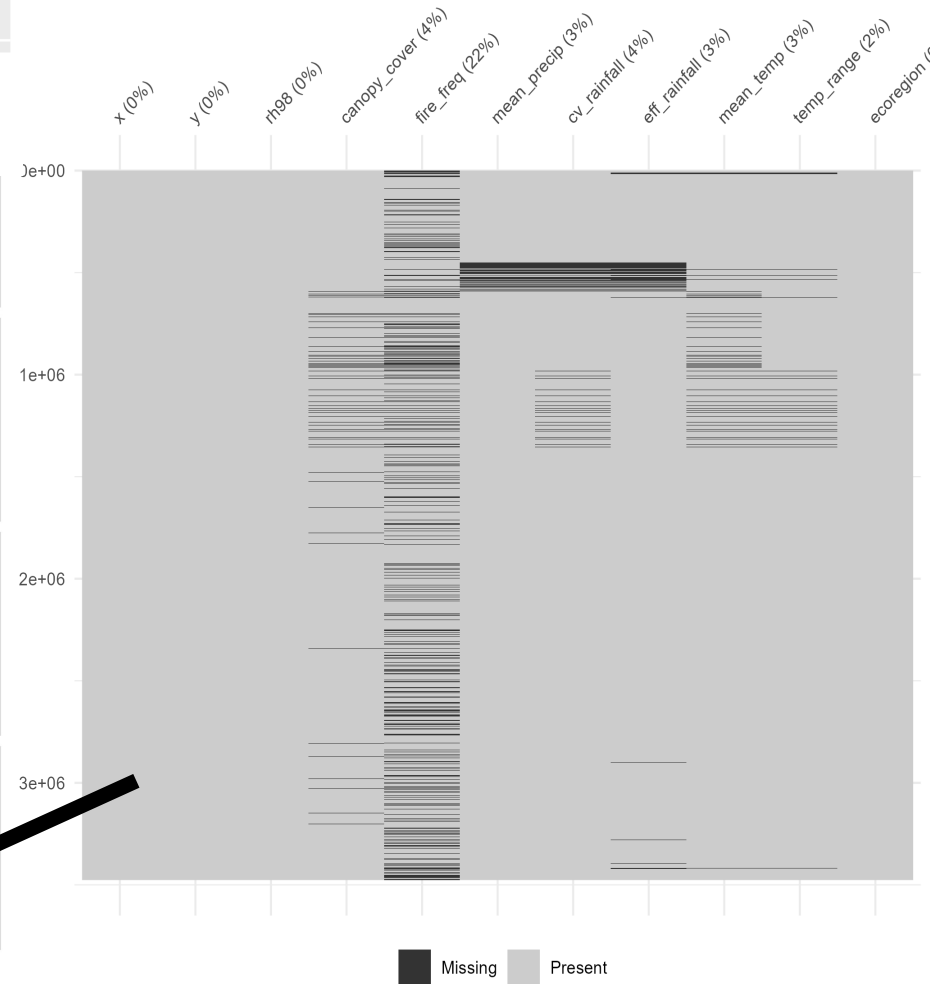
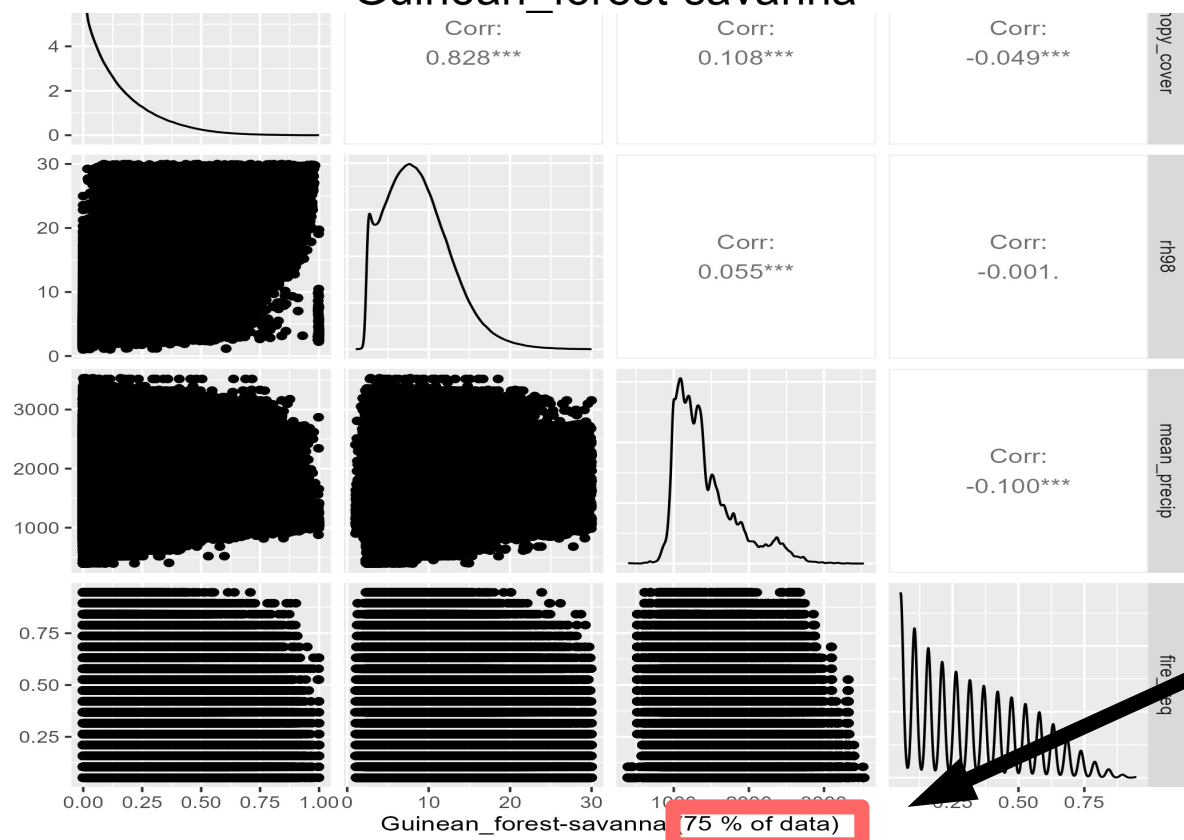


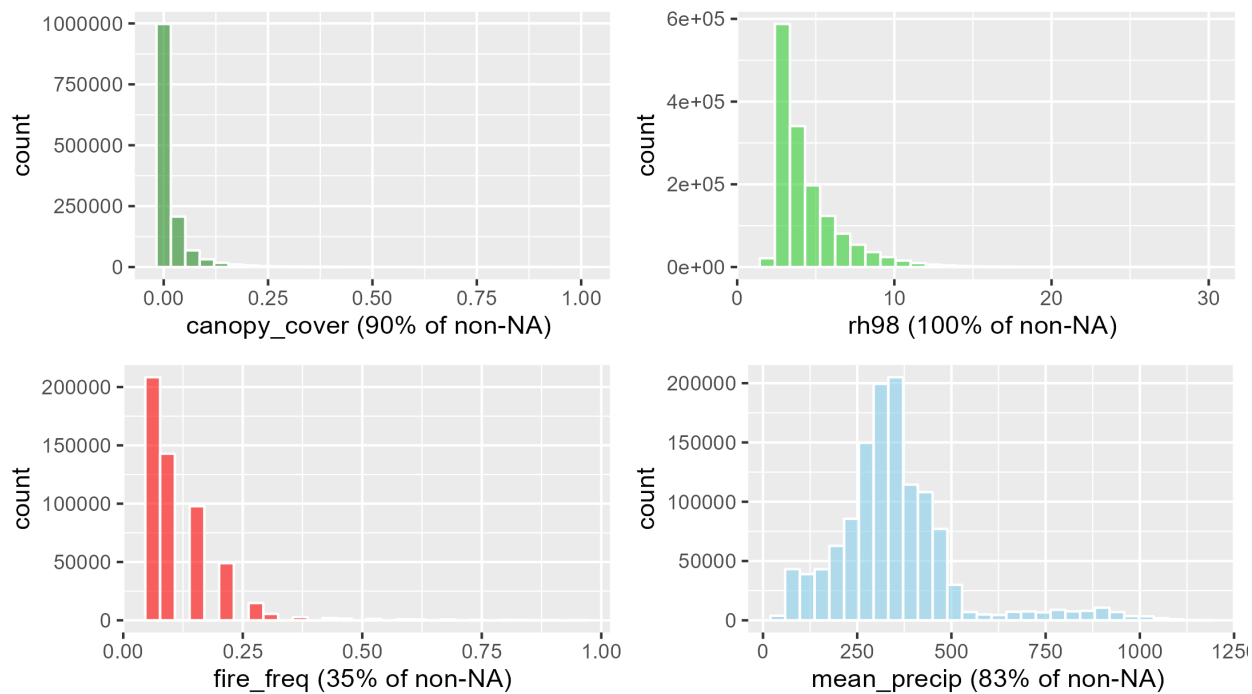
## Northern\_Congolian



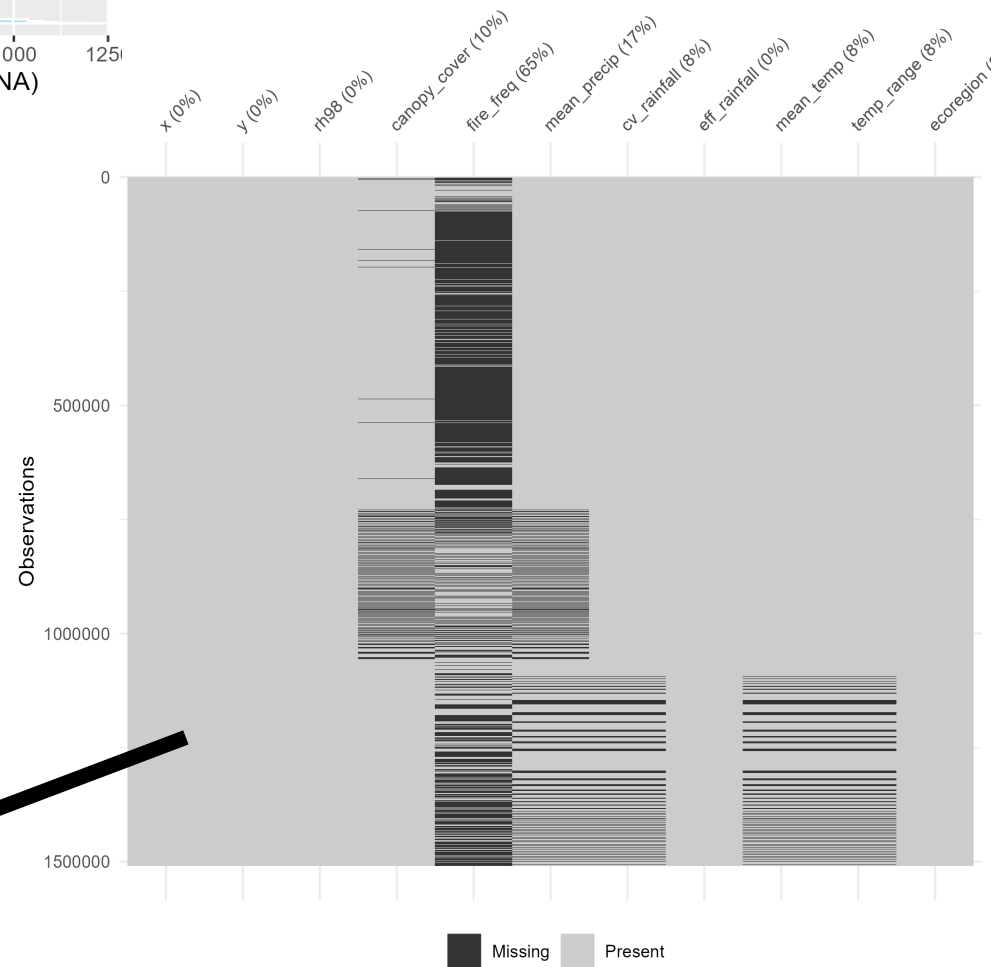
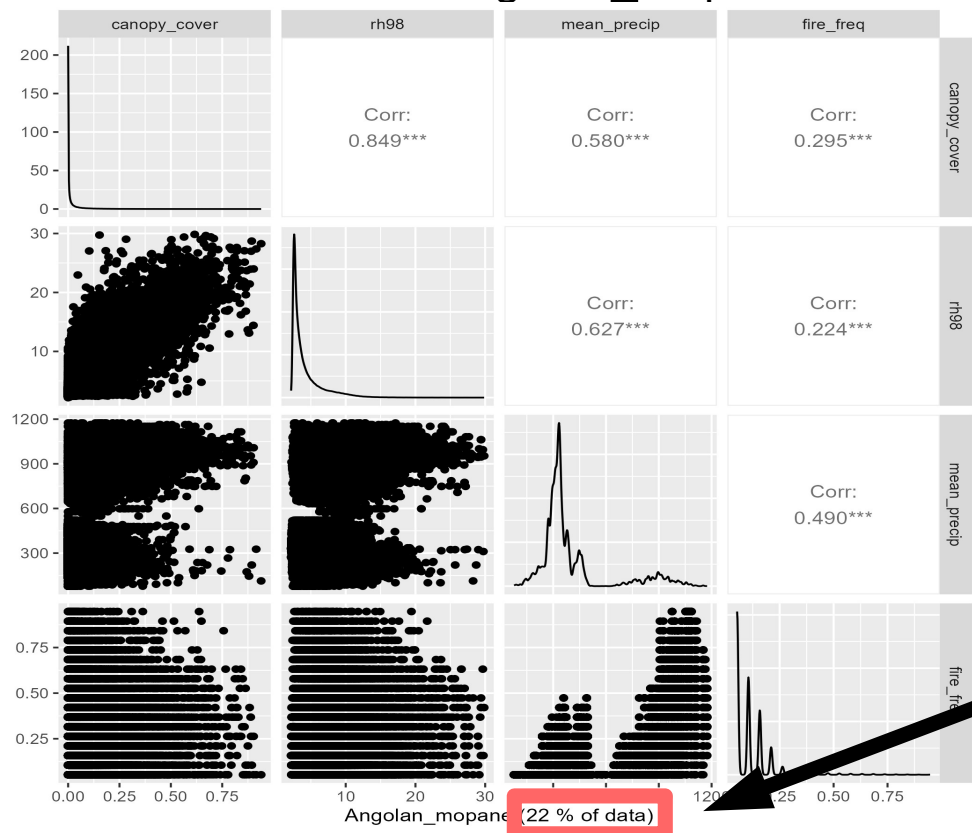


## Guinean\_forest-savanna





## Angolan\_mopane



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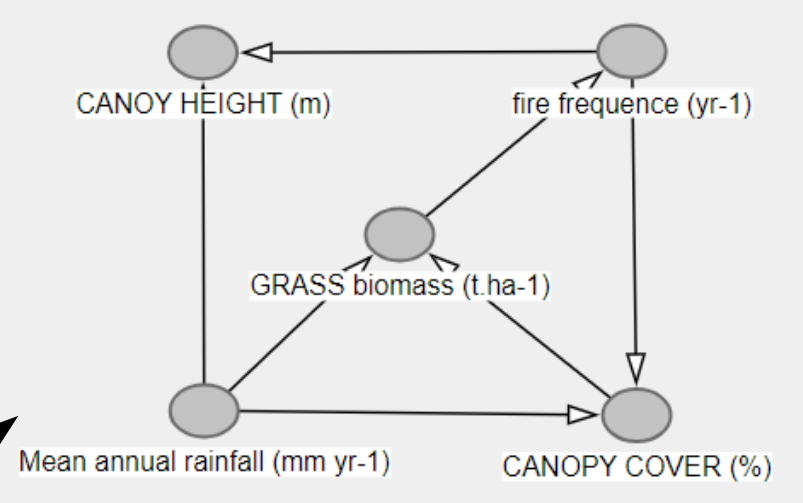
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