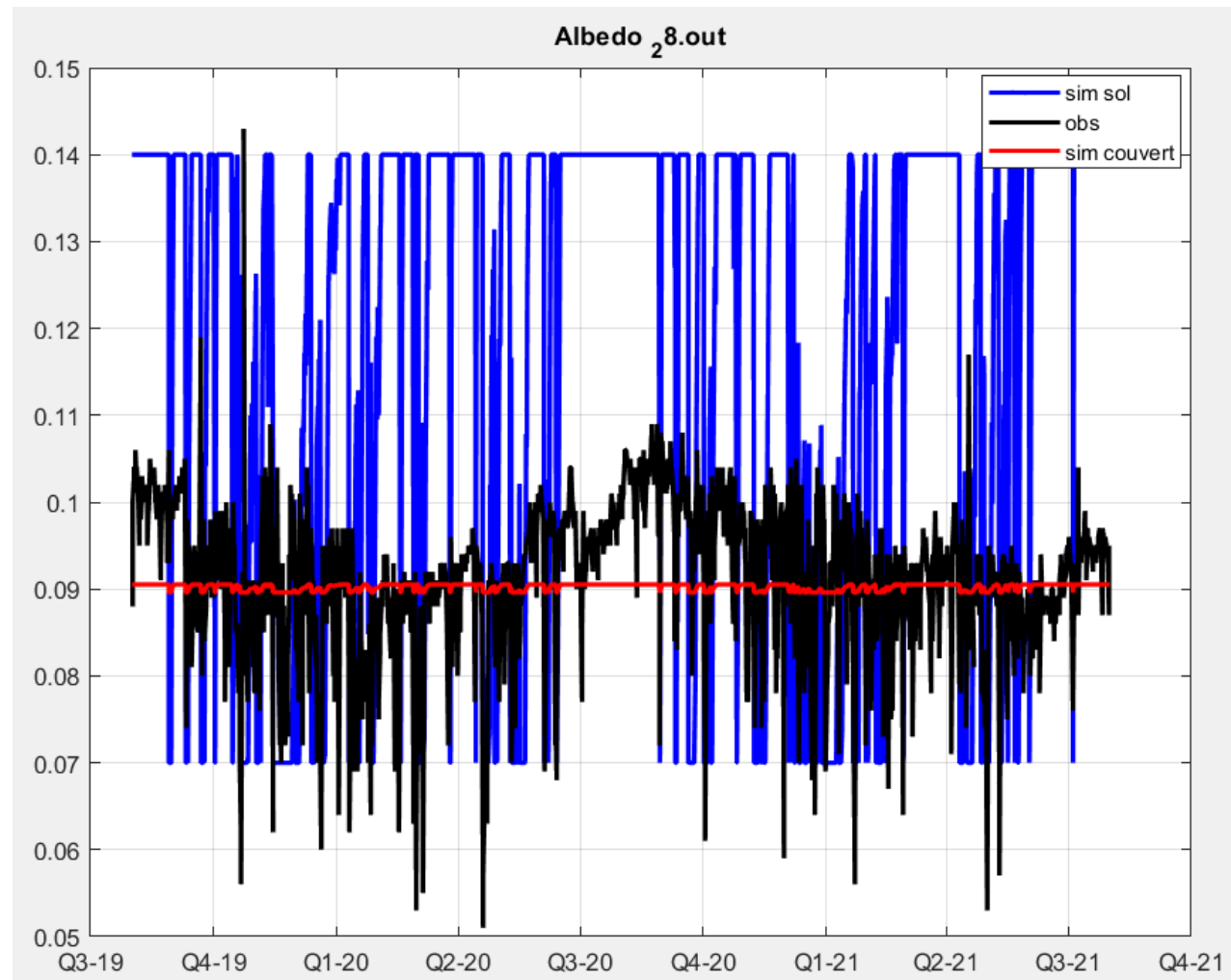
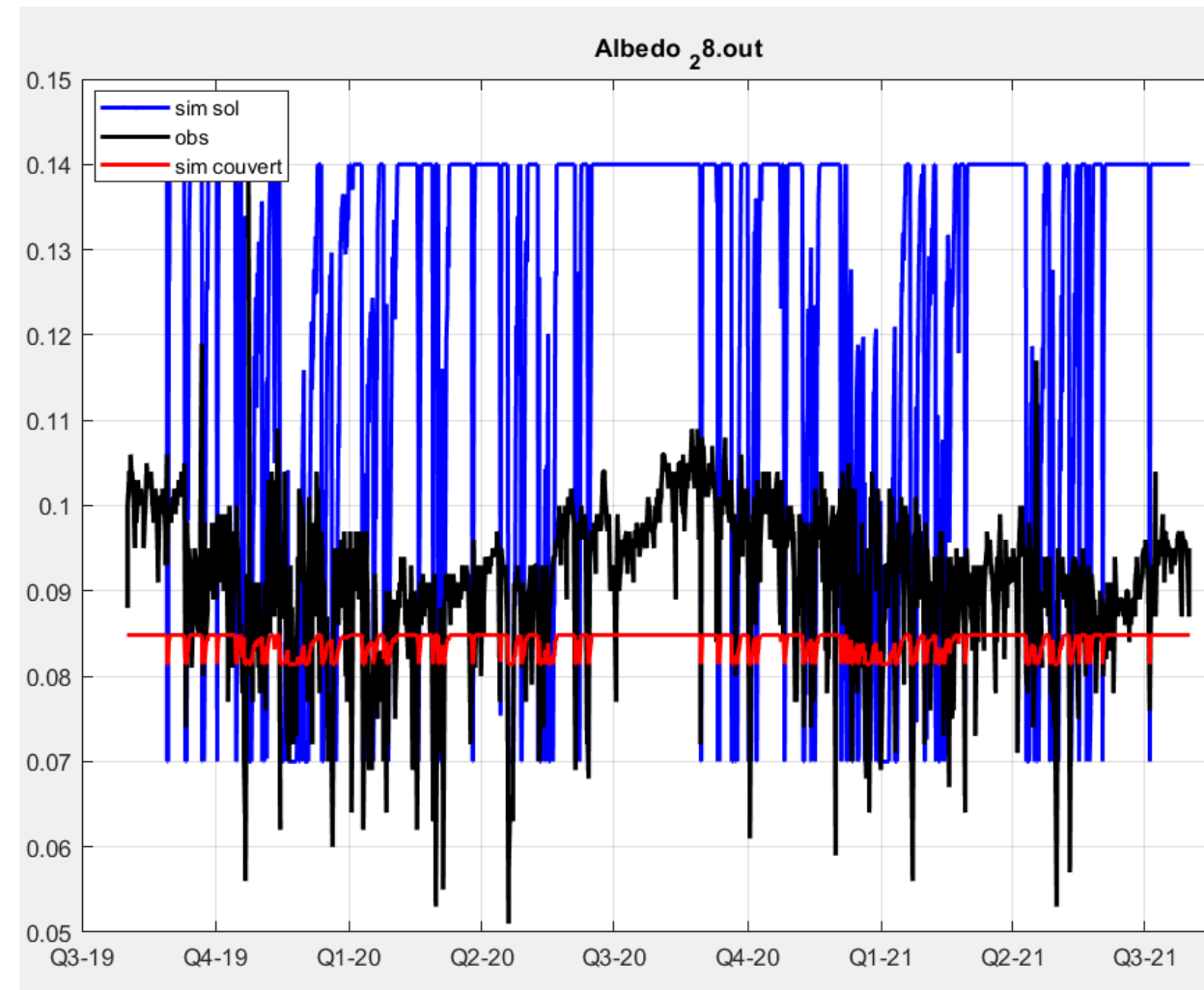


Albedo



- Coeff attenuation 0,72 (p3 ref)



- Coeff attenuation 0,5 (p4)
- Amplitudes plus grandes d'albedo simulé

P3 ref ksat 10-7

P4 change alb coeff

P5 ksat *10

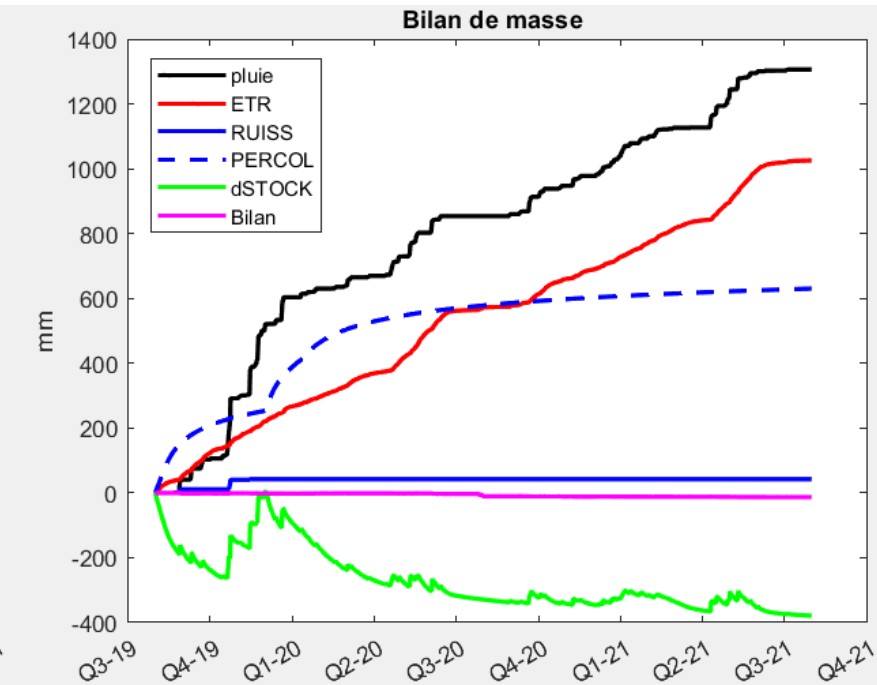
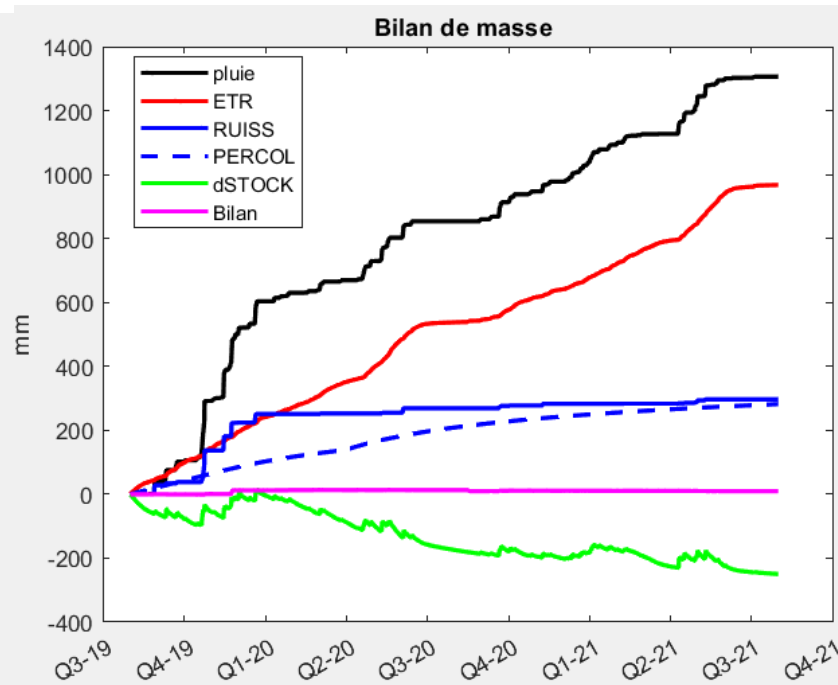
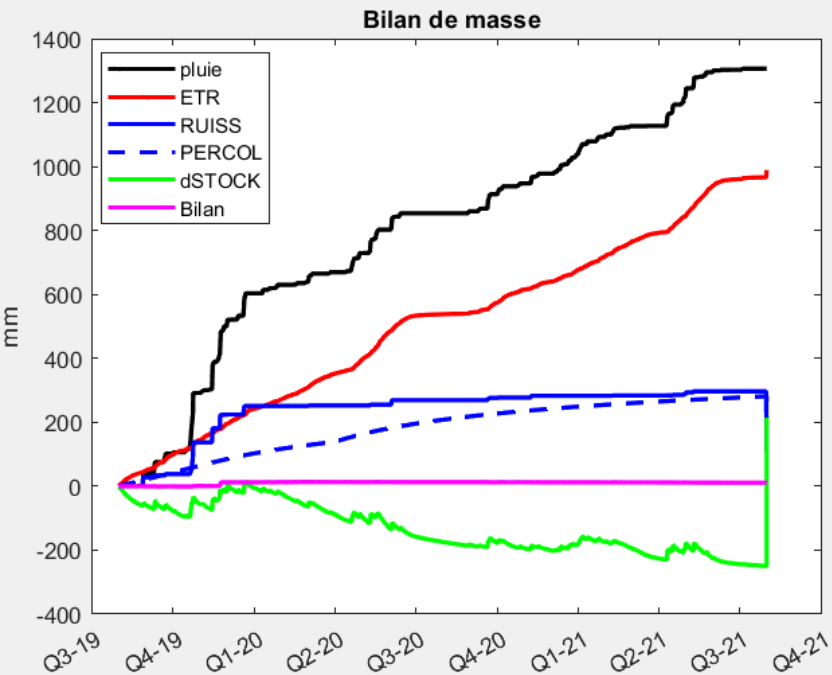
```
plcum= 1305.9999999994402
evtcum= 966.51570310817817
etrcum= 503.97876702185556
evscum= 392.66341786580841
ruissurf= 296.78261547728027
percol= 281.31802573265298
variation de stock= -249.7021989064
stock= 1282.8149510935323
interpcum= 69.873518220418276
bilanmas= 11.085854587792539
ijour= 731
t= 63158388.439413697
Calcul termine
```

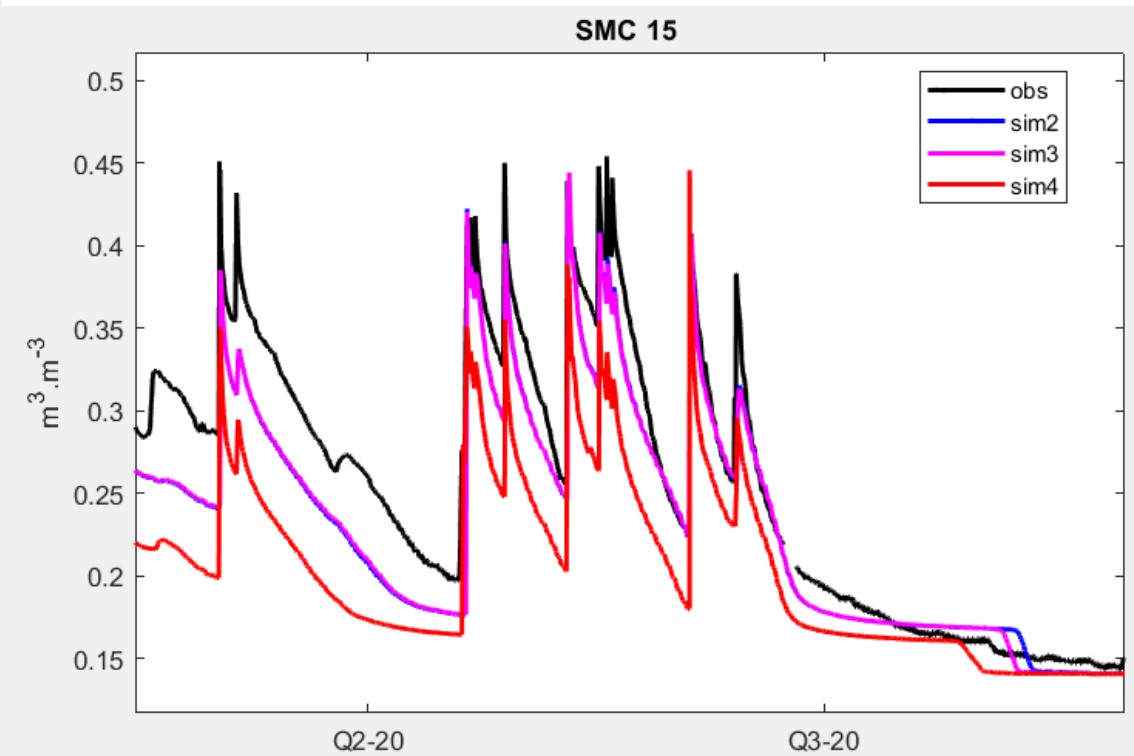
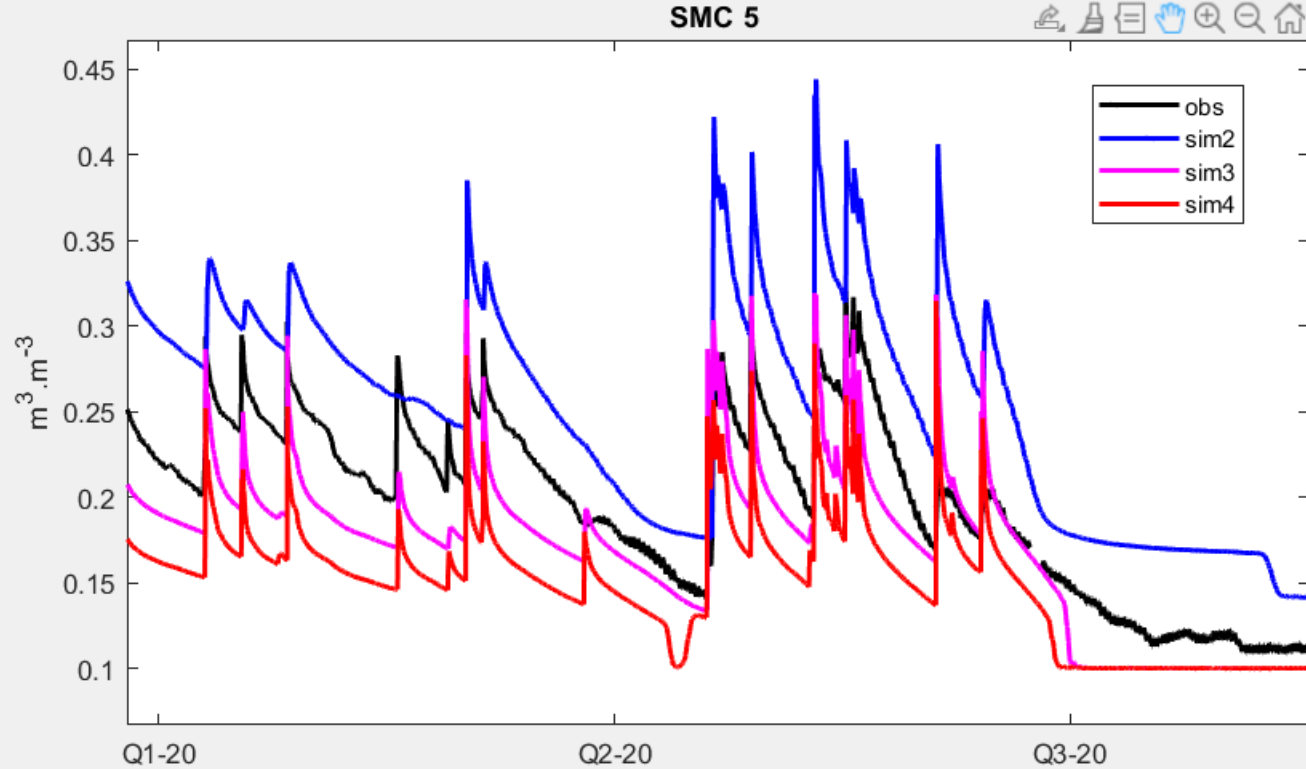
ETR vege

Evap sol

```
plcum= 1305.9999999980321
evtcum= 967.41043760919501
etrcum= 496.88237360020685
evscum= 407.62574888288611
ruissurf= 296.75114131923101
percol= 282.04684848305305
variation de stock= -249.749310
stock= 1282.7678398767166
interpcum= 62.902315126038872
bilanmas= 9.5408827098324309
ijour= 732
t= 63158400.000000000
Calcul termine
```

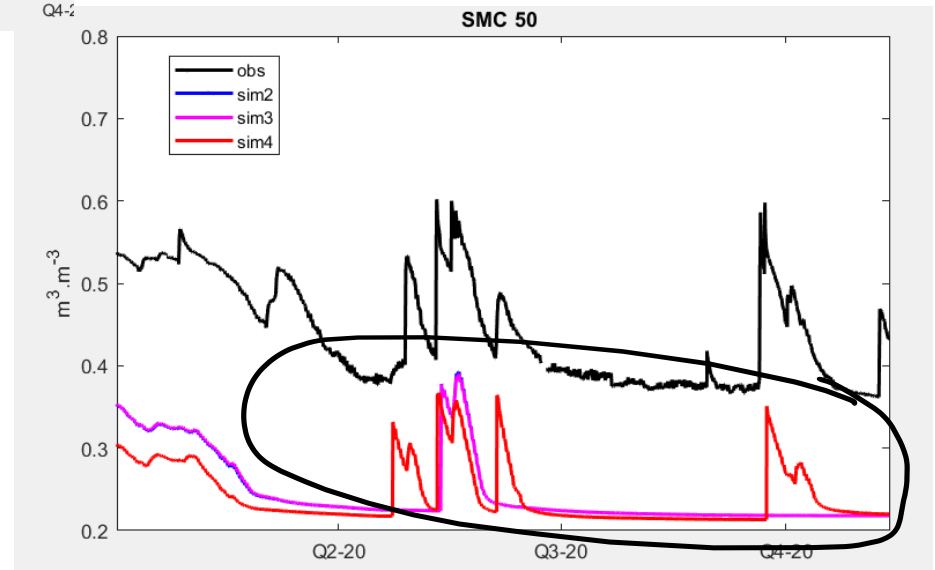
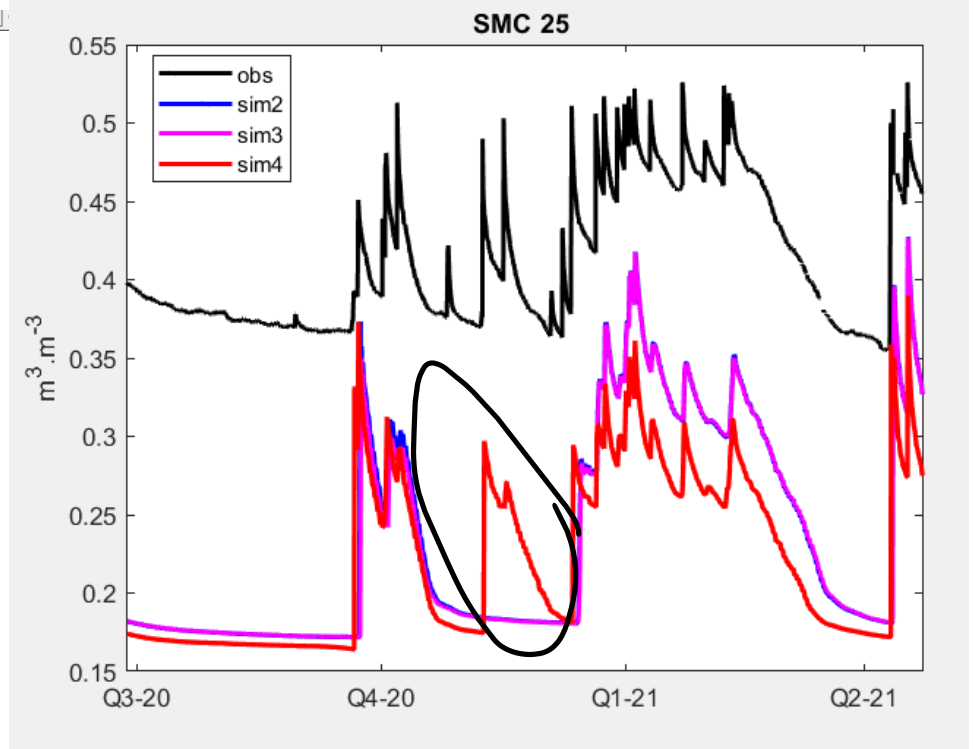
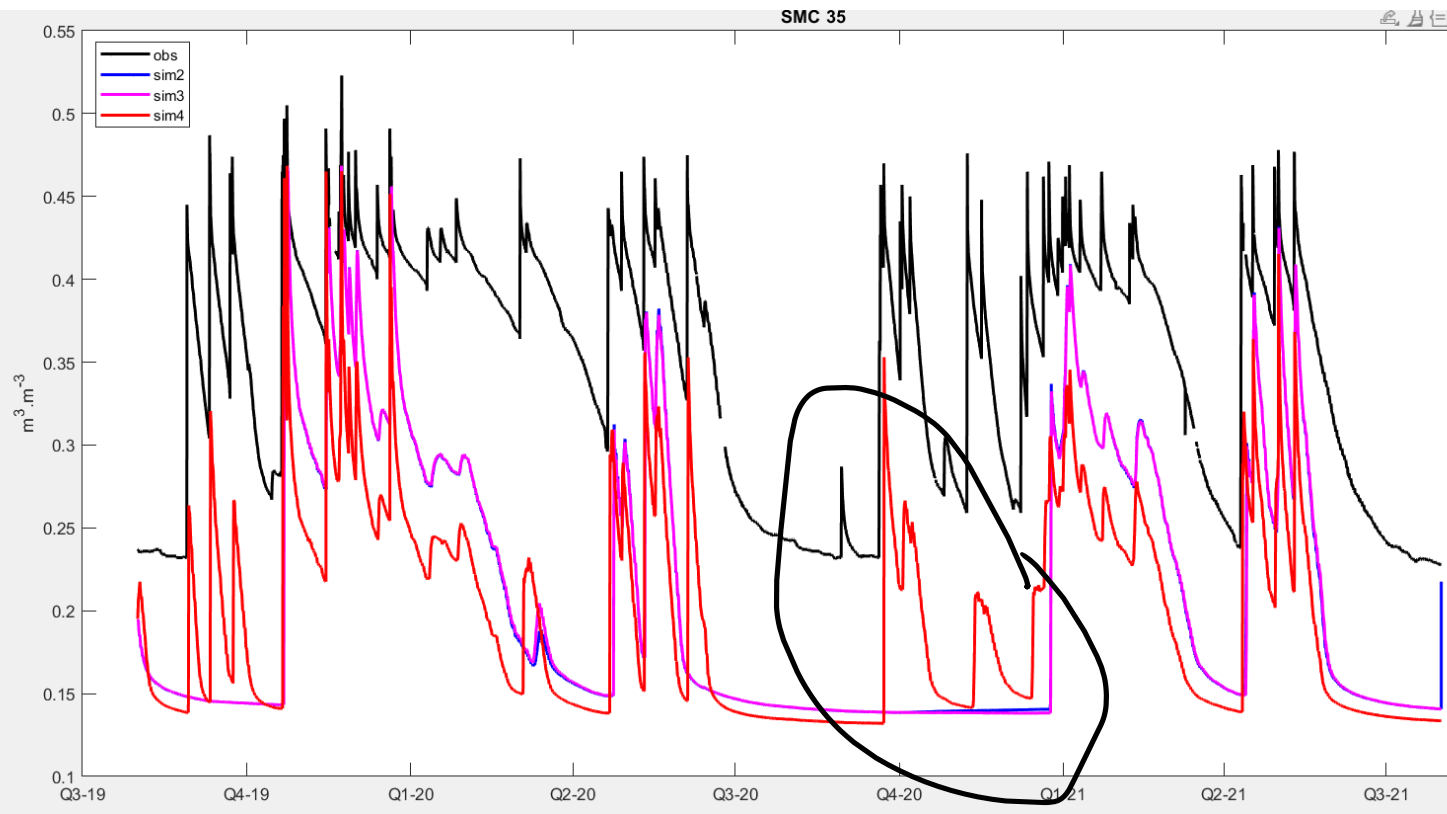
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etrcum= 564.81758620103767
evscum= 390.98162434123816
ruissurf= 42.276403282469822
percol= 630.17974662472920
variation de stock= -379.078082
stock= 1153.4390671838676
interpcum= 69.814249513691877
bilanmas= -12.991527148360547
ijour= 732
t= 63158400.000000000
Calcul termine
```





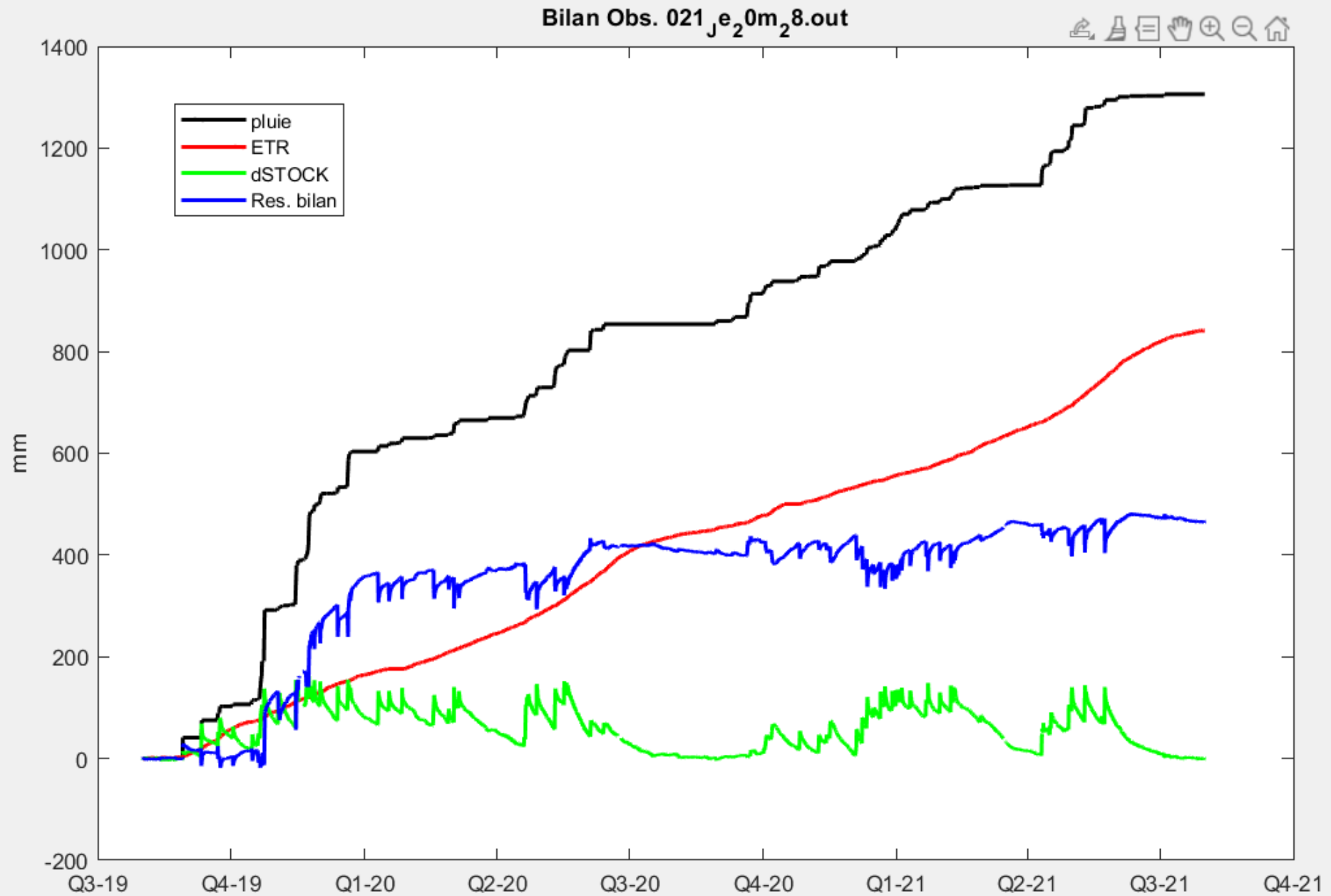
- Change in attenuation coef gamma (energy Swin repartition between vegetation and ground) impacts soil humidity.
- if more energy reaches the ground (sim3) less water in the top part of the soil
- Higher Ksat: lower humidity but faster response (easier circulation)

Below, no difference between 2 and 3, only affects the surface
Ksat larger-> faster circulation



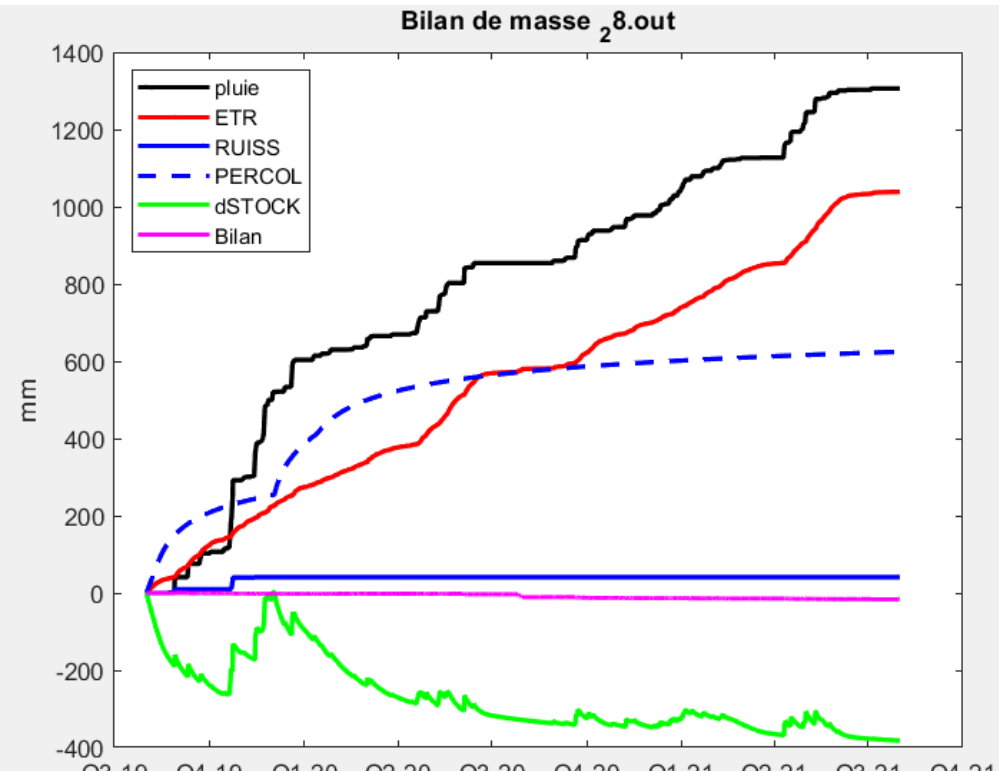
Augmentation de la conductivité permet à l'eau de circuler plus profond et au modèle de simuler les pics de teneur en eau

Bilan des obs (! Rescaling à faire pour les stocks obs avec les cailloux!)



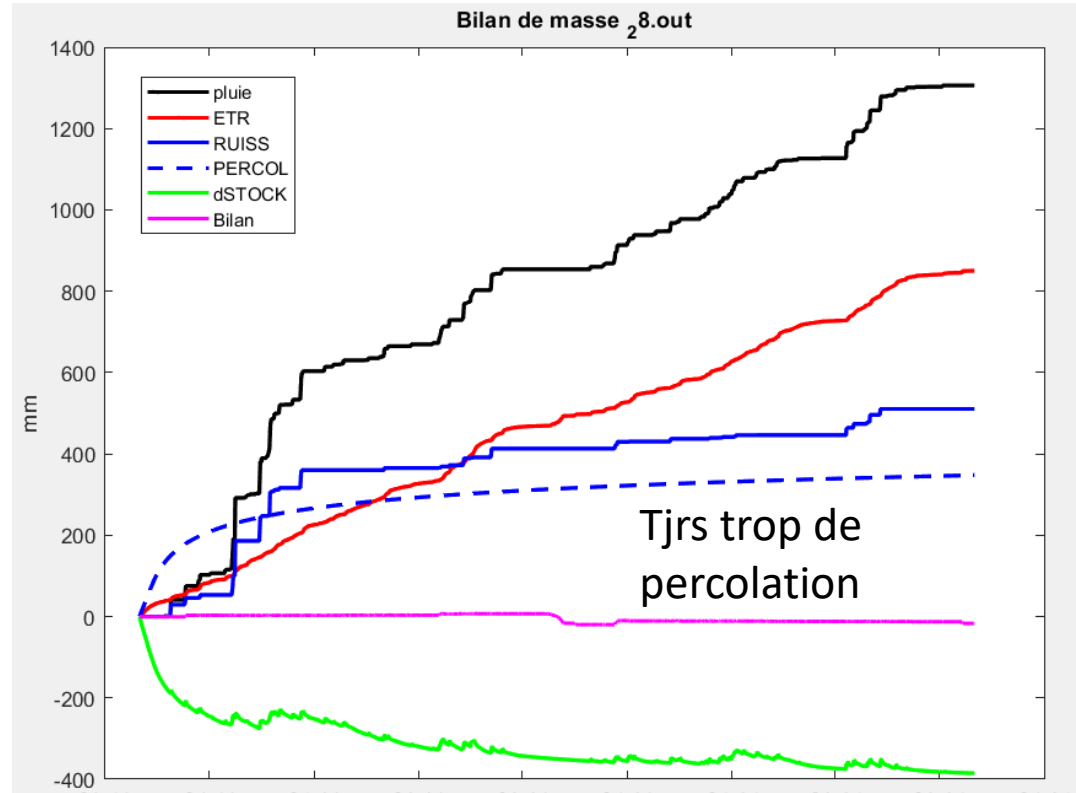
P5 référence
avec ksat à
environ 10-6
m/s sur tout
le profil

```
plcum= 1305.9999999987119
evtcum= 1038.5200262296642
etrcum= 536.70334111080592
evscum= 432.22080050249923
ruissurf= 41.082165771684231
percol= 624.52689397509664
variation de stock= -382.2886
stock= 1150.2284670086910
interpcum= 69.59588461662414
bilanmas= -15.840402986428103
ijour= 732
t= 63158400.000000000
```



```
plcum= 1305.9999999985439
evtcum= 850.23932954716804
etrcum= 316.01955882468127
evscum= 464.48523886393565
ruissurf= 510.56117981956396
percol= 347.62289293203702
variation de stock= -385.647762
stock= 1146.8693877353362
interpcum= 69.734531858570136
bilanmas= -16.775640035565289
ijour= 731
t= 63158387.217810363
```

P7 ksat environ 10-6
mais 1ere couche
de sol avec un ksat
+ faible
pour créer un refus
d'infiltration donc
du ruissellement et
tenter de limiter la
percolation et la
perte de stock



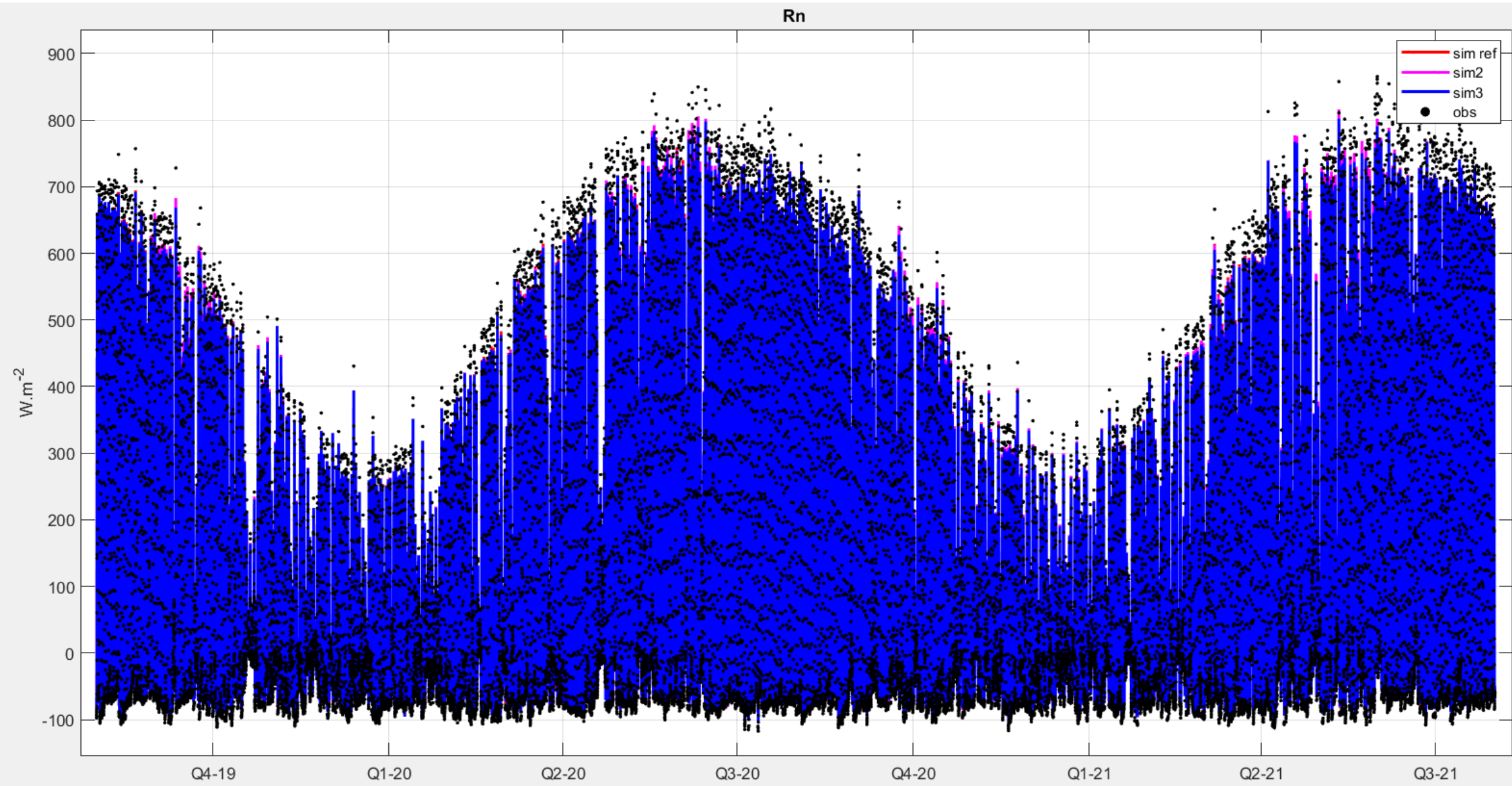
FLUX

simulation de référence p3: (ksat de puechabon)

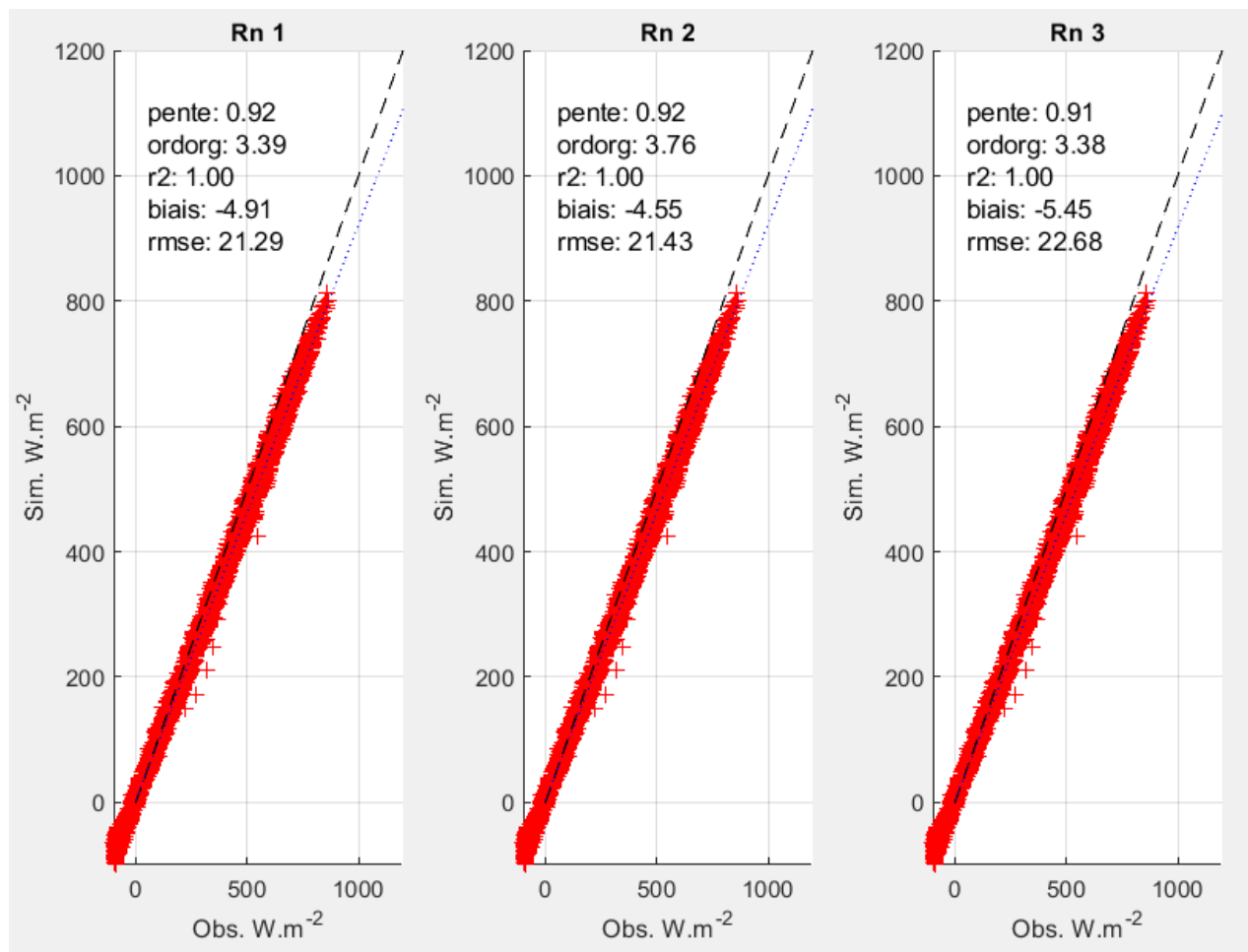
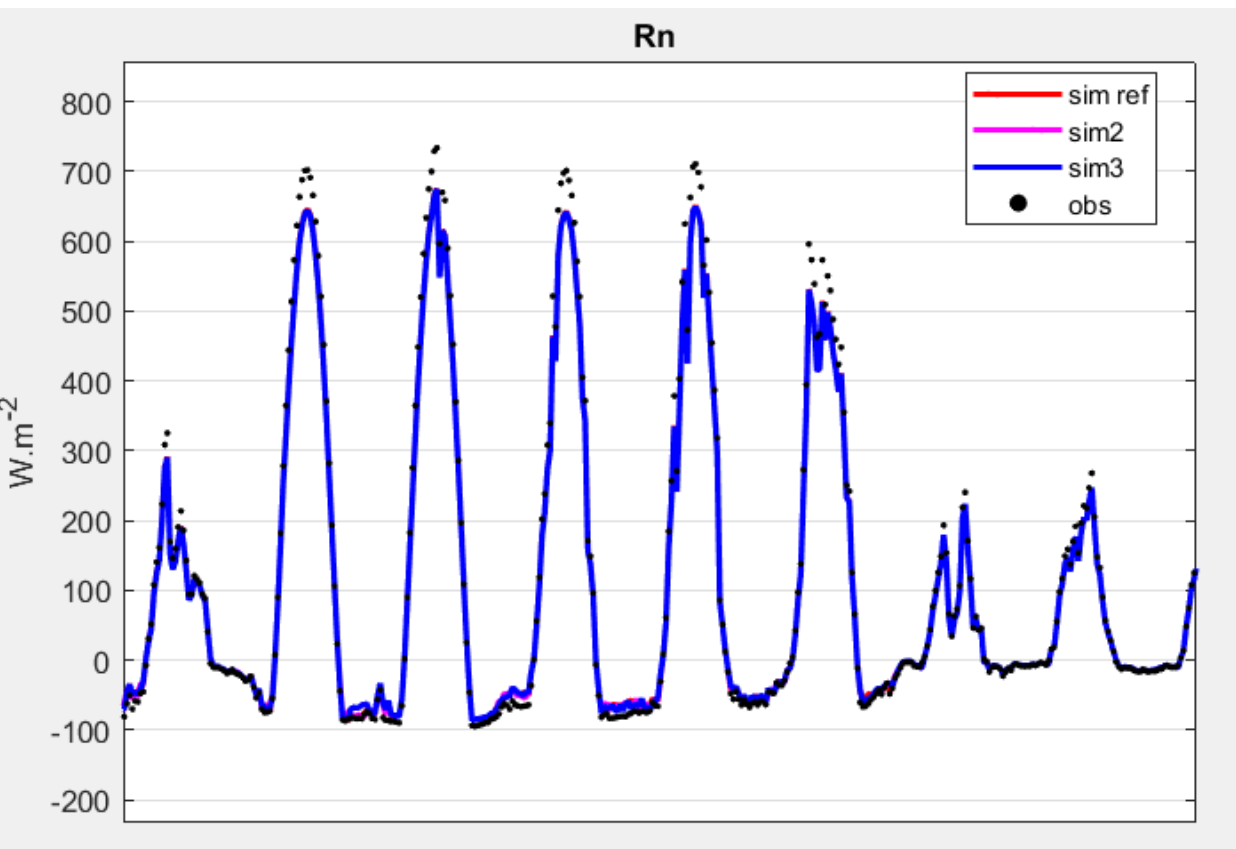
p5: $\text{ksat} * 10$ (10^{-6} m/s)

p7: $\text{ksat} * 10$ et horizon à la surface avec ksat
permettant un refus à l'infiltration

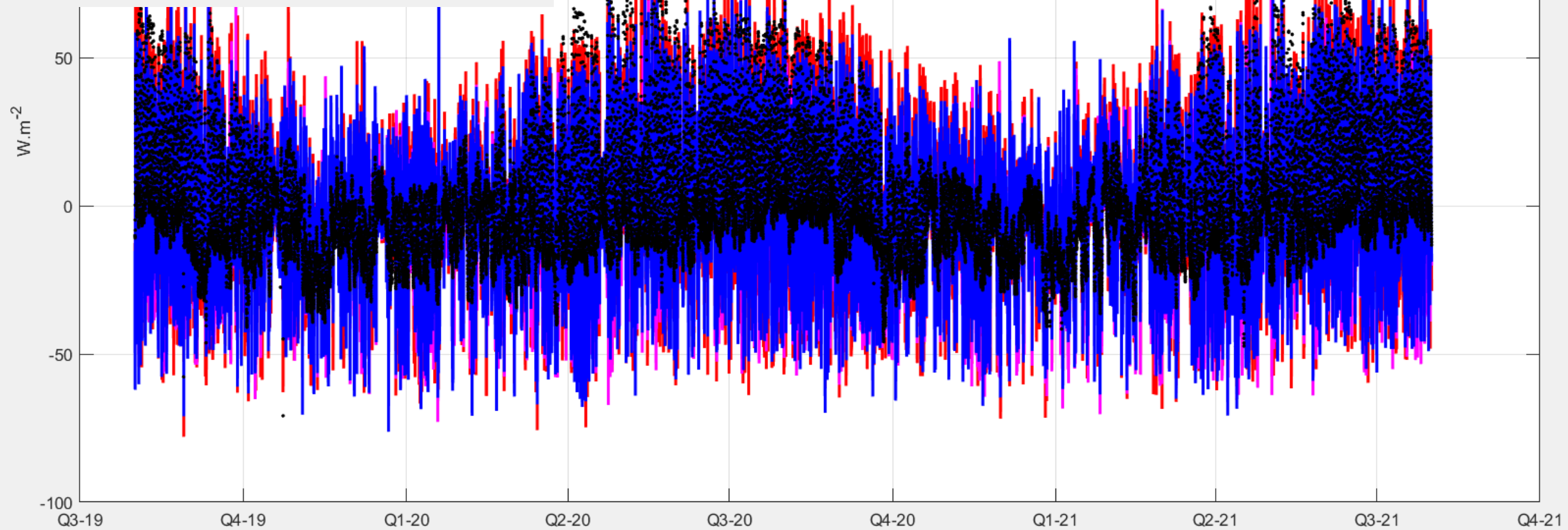
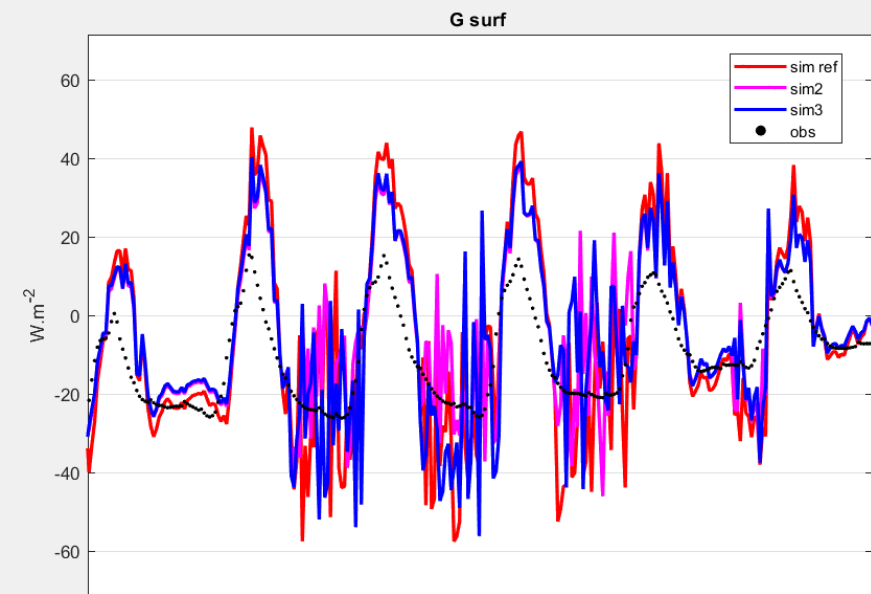
Rayonnement net

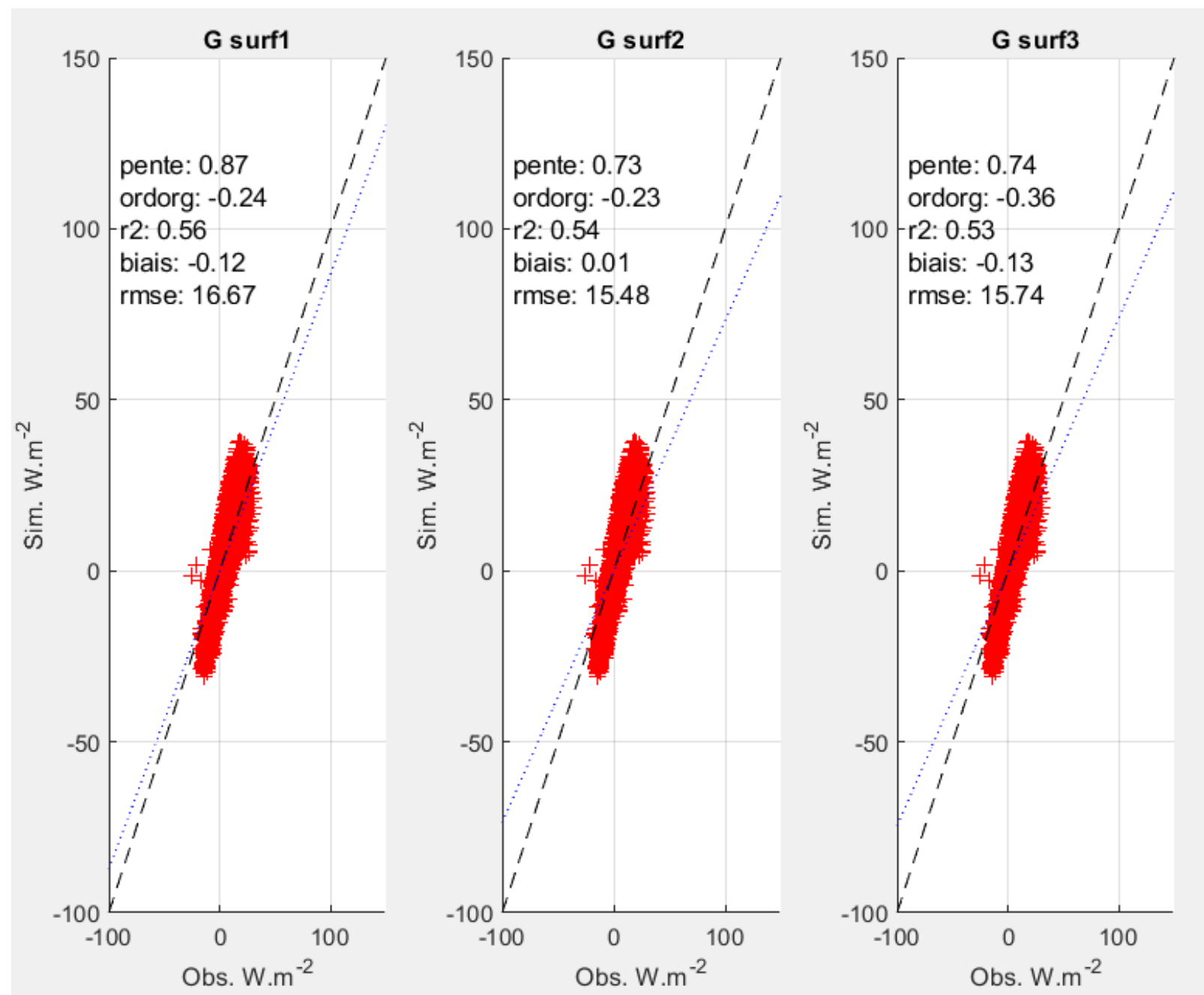


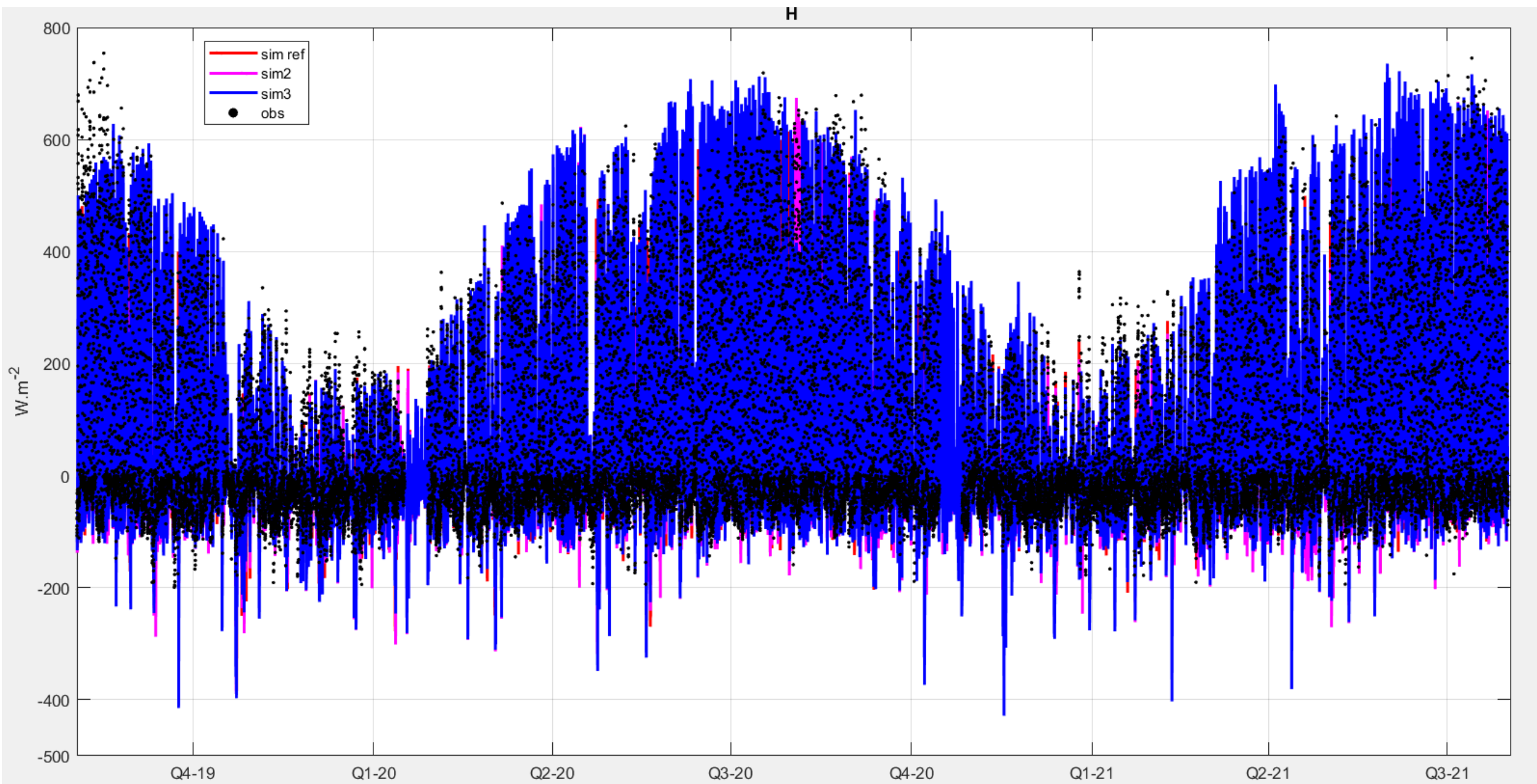
Zoom juin 2020

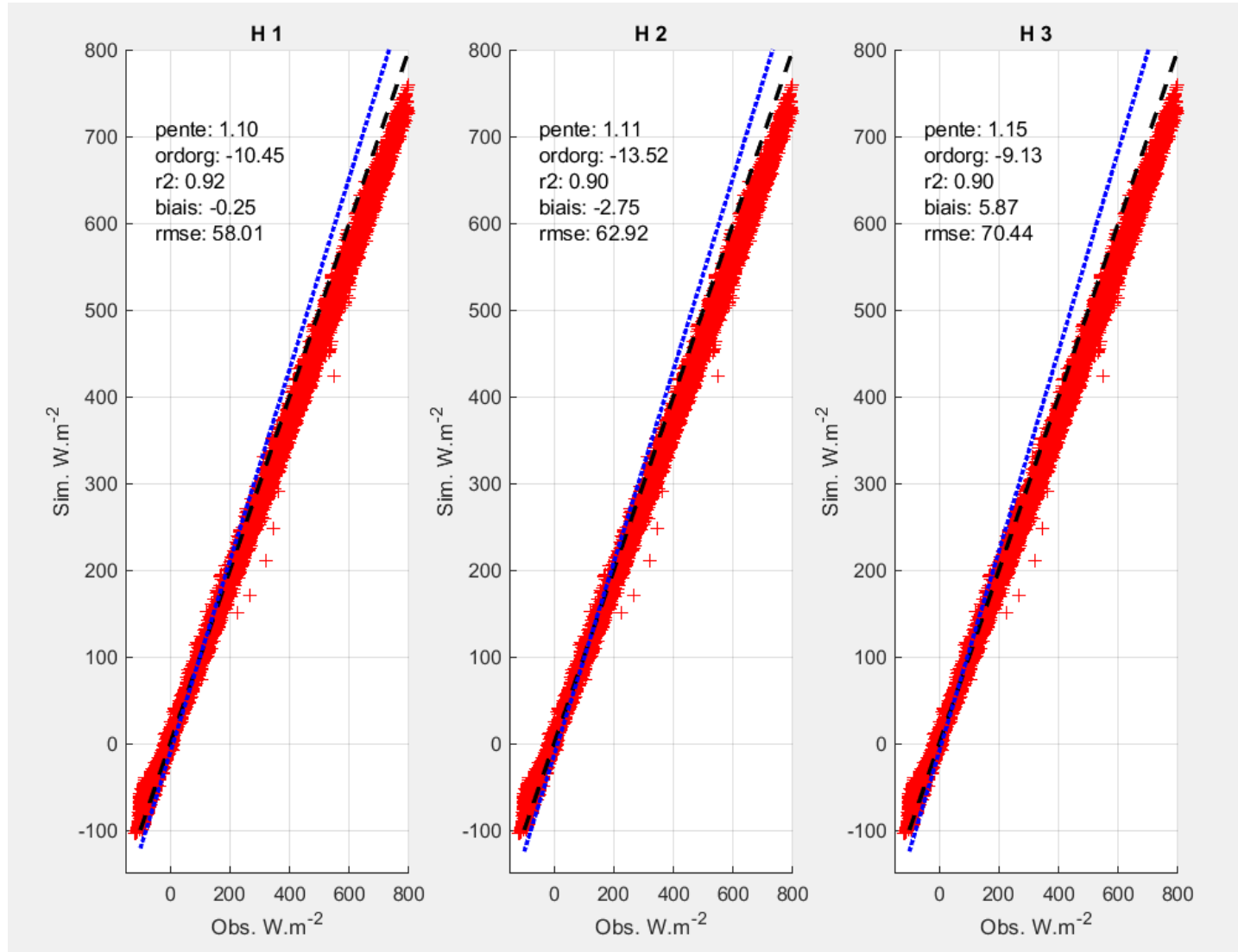
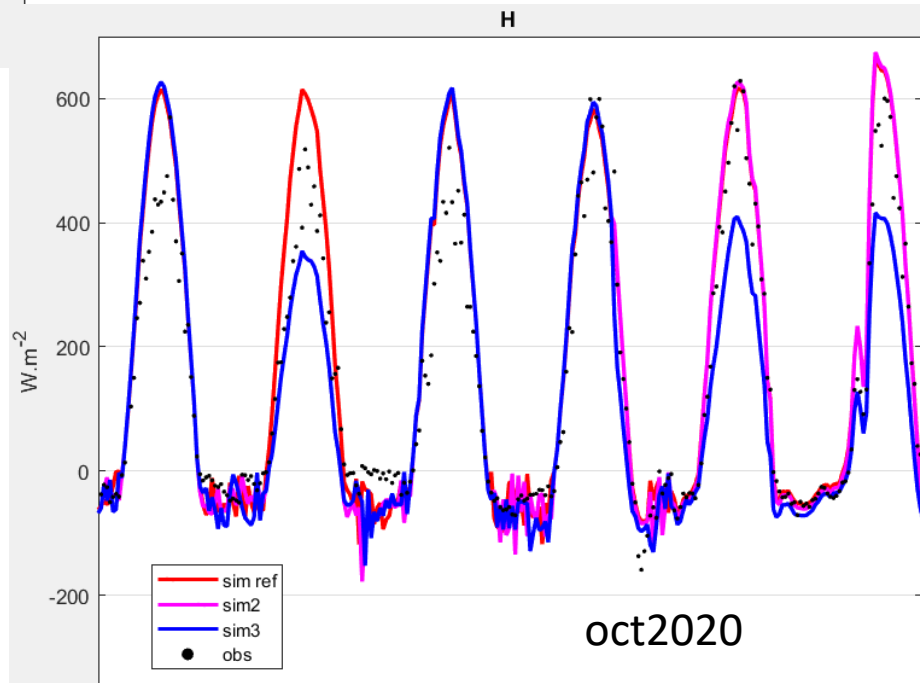
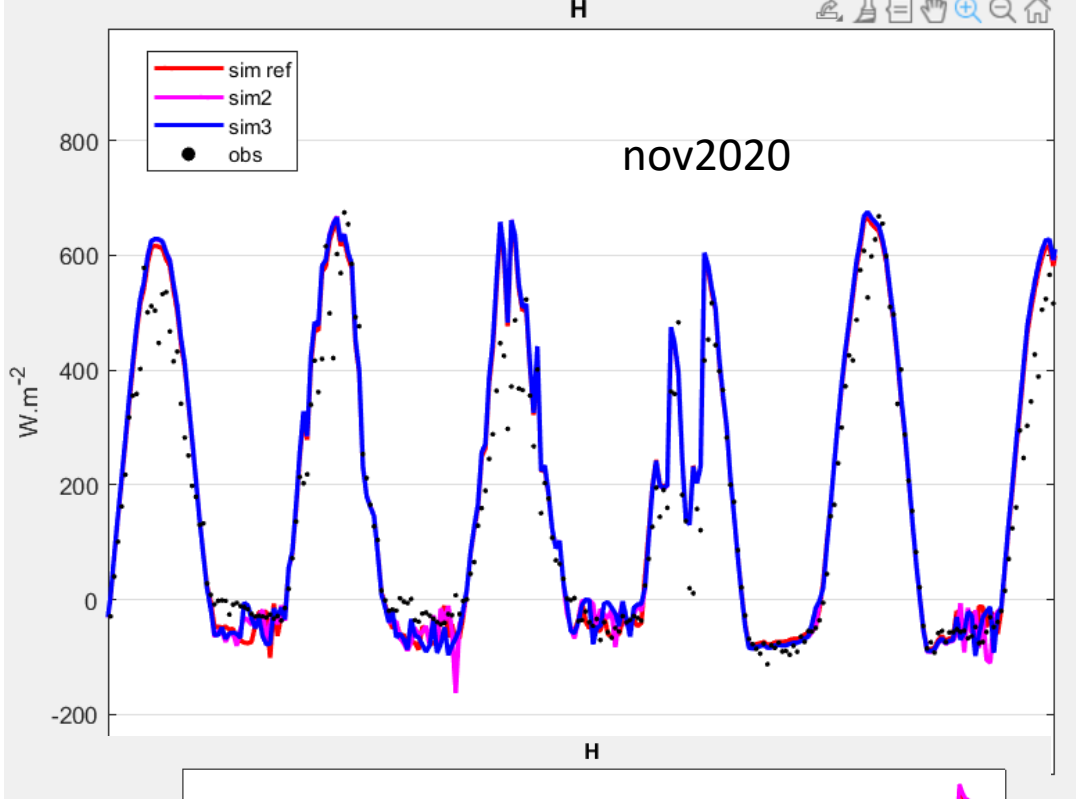


Zoom sur dec 2020

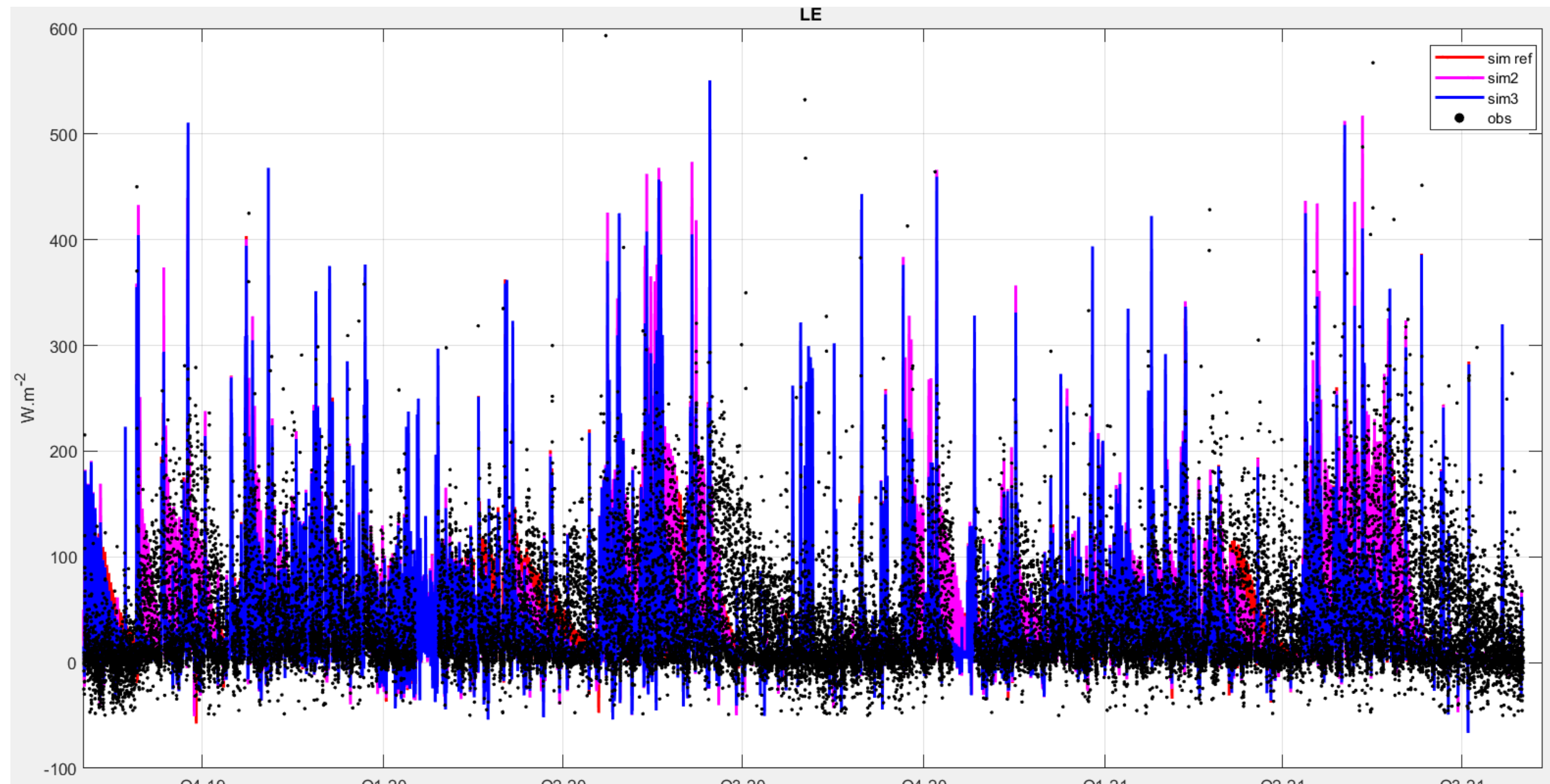


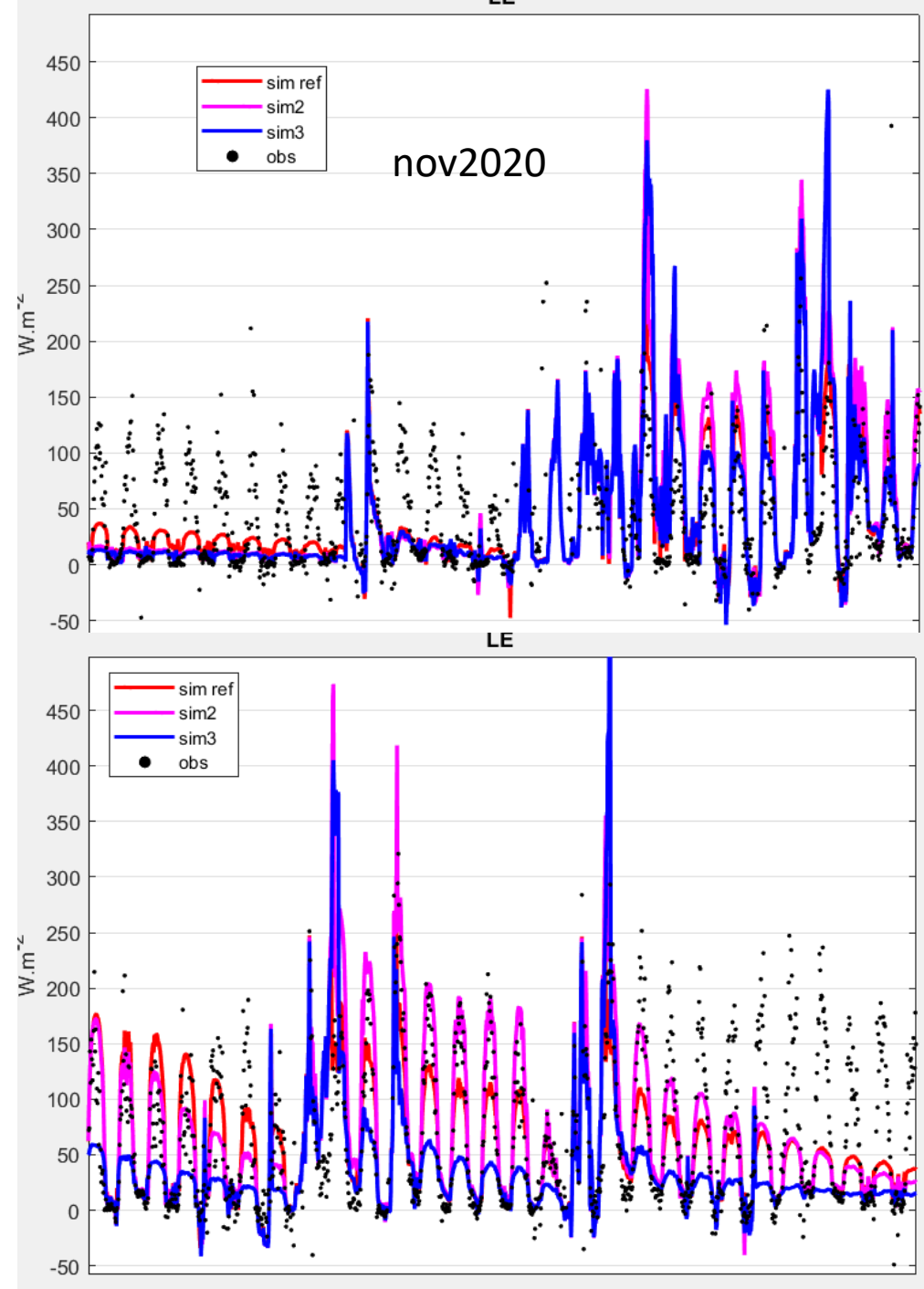
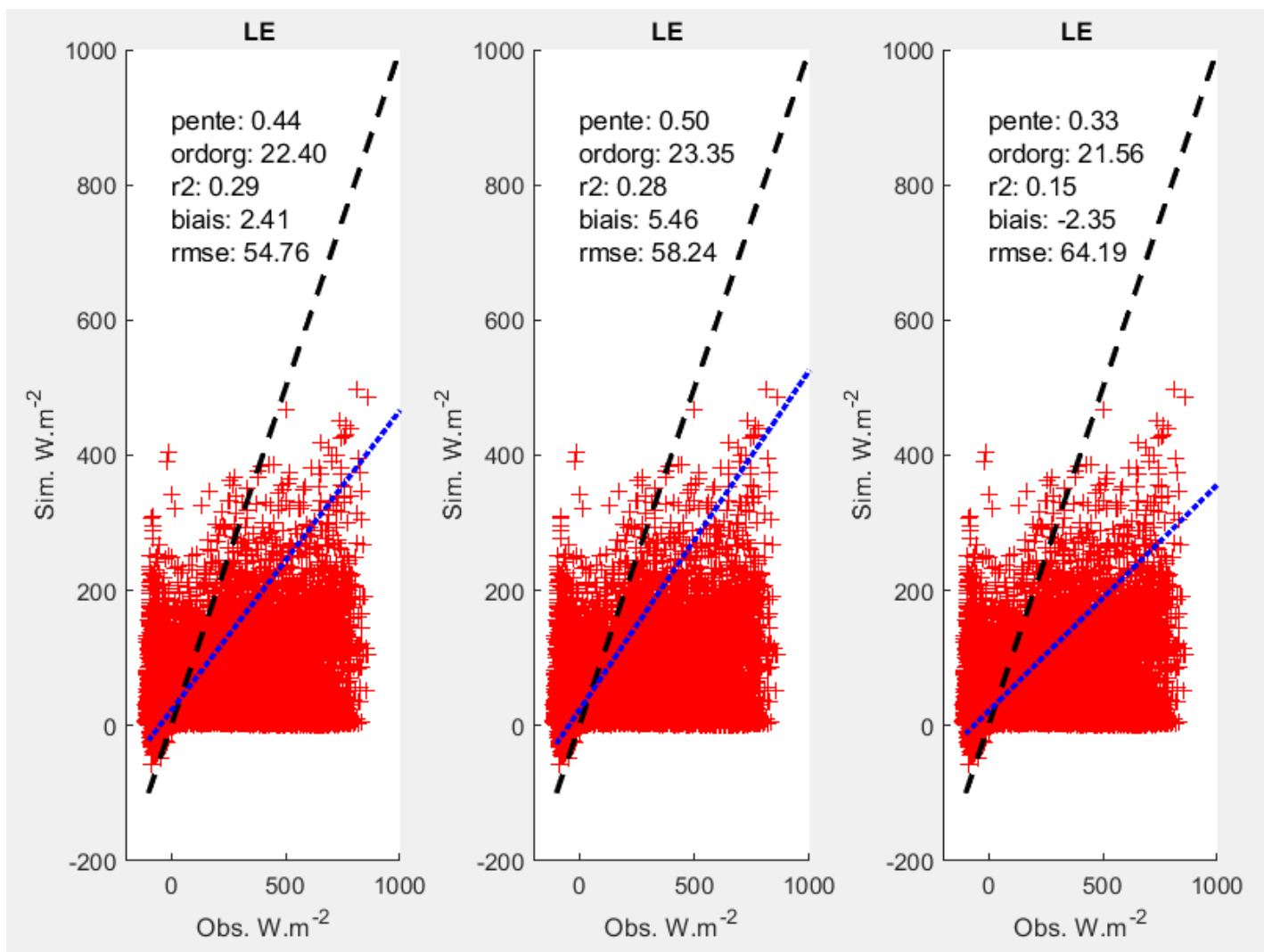


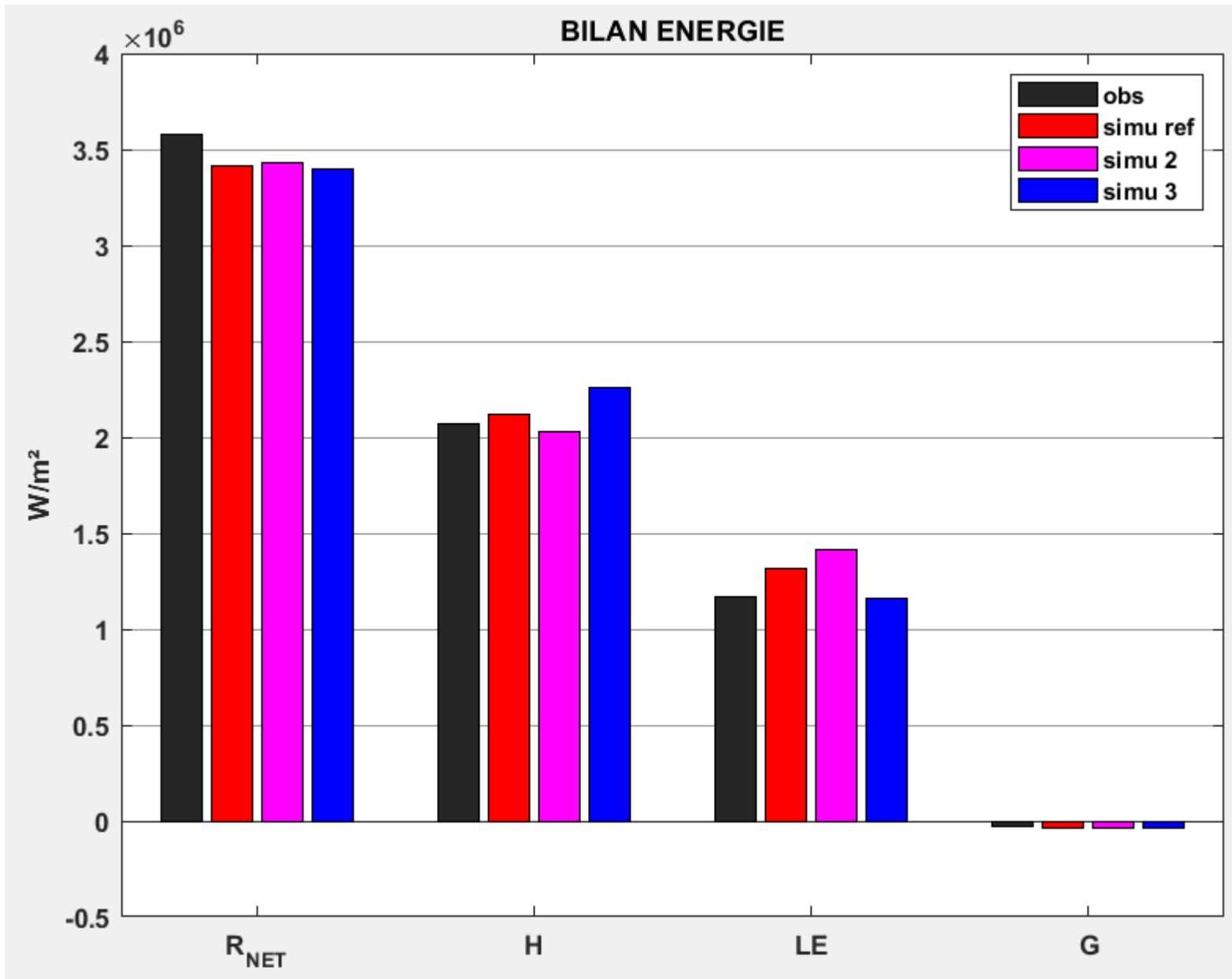




CHALEUR LATENTE (LE)







Cumul des flux sur les deux ans de simulation
!!attention!! Il y a des lacunes dans les obs et je n'ai pas compté uniquement les périodes de simulation avec des obs
A REFAIRE

Ordres de grandeur OK

