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Evaluation of Groundwater Simulations in Benin from the ALMIP2 Project

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Supplementary information for “**Evaluation of groundwater simulations in Benin from the ALMIP2 project**”

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Captions for supplementary Tables and Figures:

Table S1. The response of different hydrological fluxes (mm/day, except for WTD and Δ GWS which is in m and mm, respectively) to the tunings in specific yield values in CLM4.

FIG. S1. Time series of water budget fluxes from CLM4 (mm/d, except for Δ GWS which is in mm) from 2005 to 2008, on average over the Donga basin based on control run (blue color), EXP1 (green color), EXP2 (red color) for (a) Precipitation (b) Δ GWS (c) Recharge (d) ET (e) Surface runoff (f) Baseflow (g) Total runoff.

FIG. S2. The response of Δ GWS (mm) in CLM4 to different specific yield values compared to the observations from 2005 to 2008.

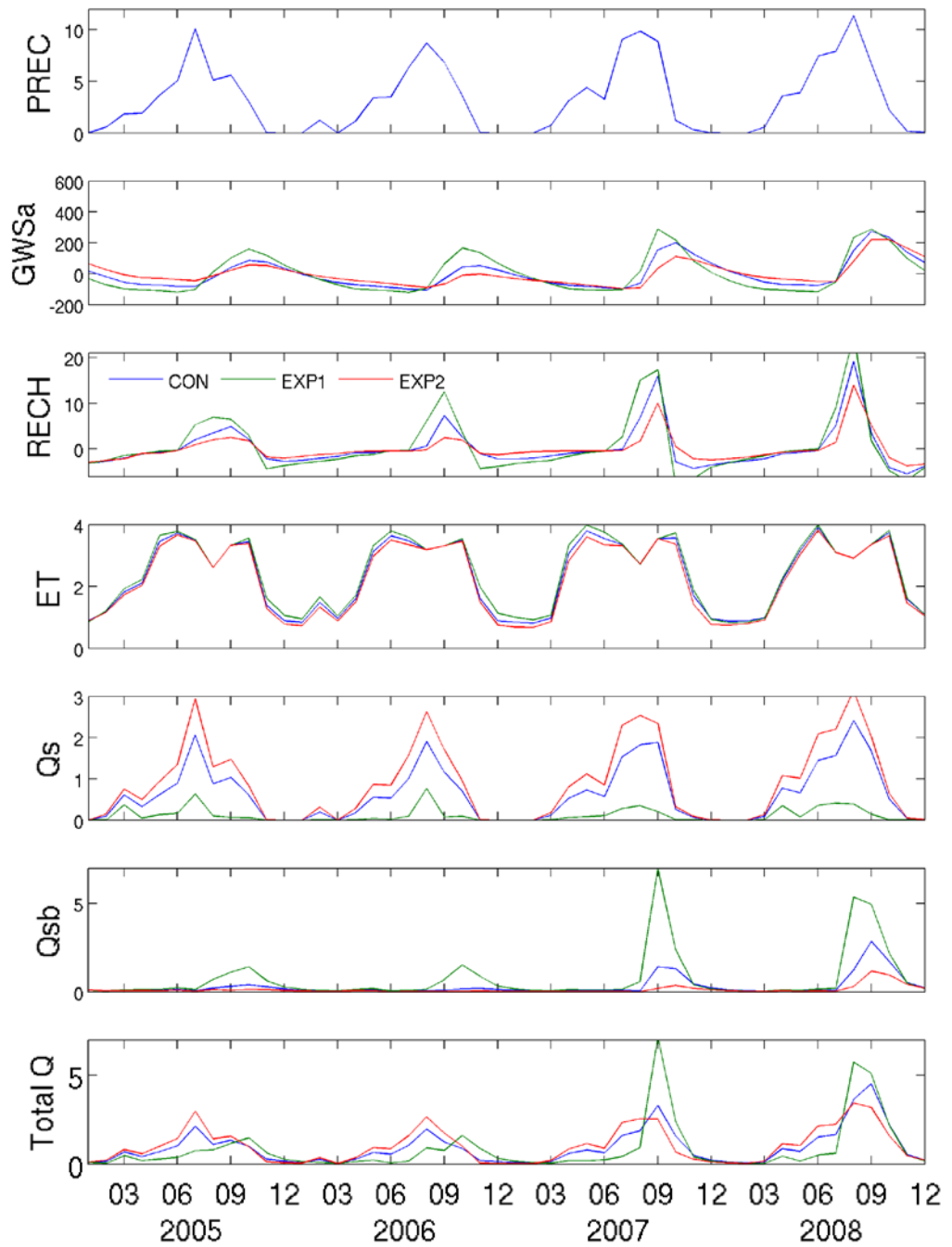


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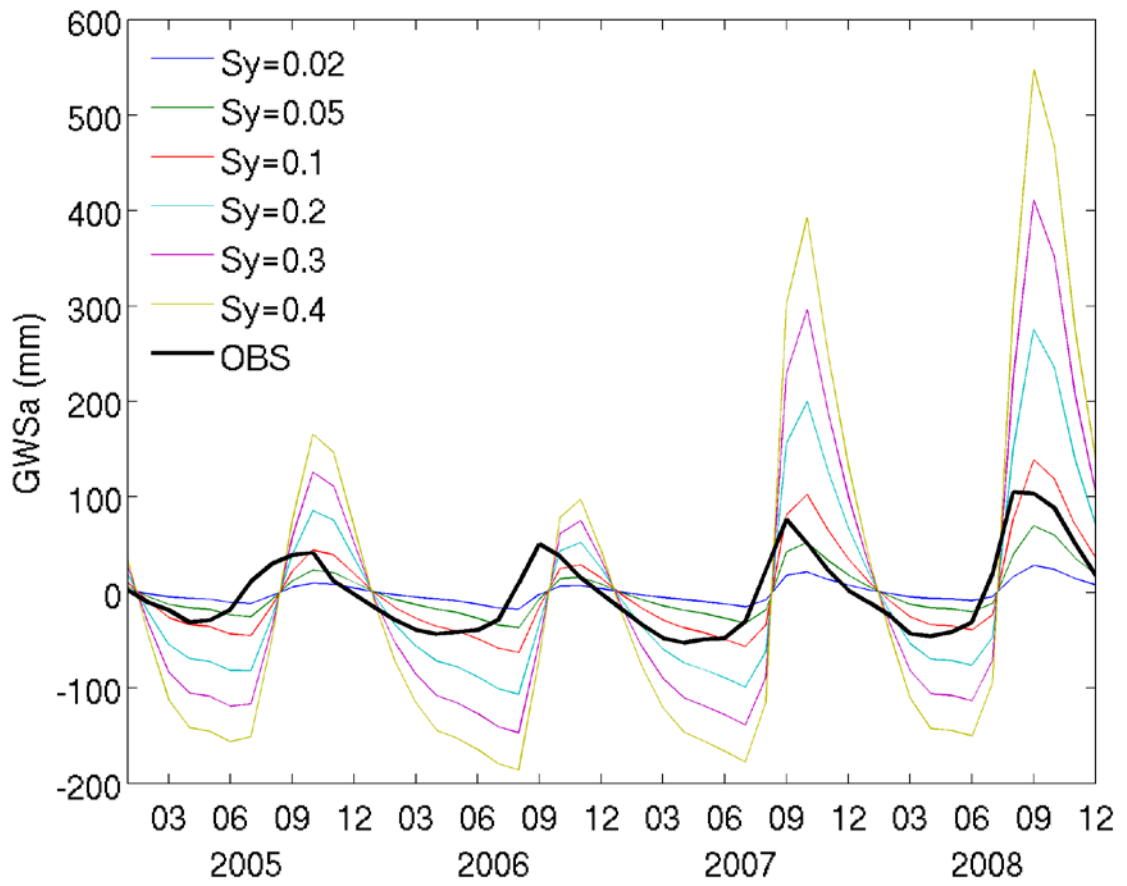


FIG. S2. The response of ΔGWS (mm) in CLM4 to different specific yield values compared to the observations from 2005 to 2008.

Sy	Qs	Qsb	R	ET	Climatology annual amplitude of WTD	Mean annual Δ GWS amplitude
0.02	0.6220	0.3018	0.1477	2.3553	1.3713	30
0.05	0.6250	0.2997	0.1463	2.3542	1.2684	69
0.10	0.6279	0.2979	0.1448	2.3533	1.1871	130
0.20	0.6305	0.2963	0.1428	2.3525	1.1260	244
0.30	0.6317	0.2956	0.1422	2.3520	1.1025	357
0.40	0.6324	0.2951	0.1419	2.3517	1.0888	468

Table S1. The response of different hydrological fluxes (mm/day, except for WTD and Δ GWS which is in m and mm, respectively) to the tunings in specific yield values in CLM4.