Supplements

Table S1

Table S1. Basic information of the 26 US hydrological stations selected for this study.

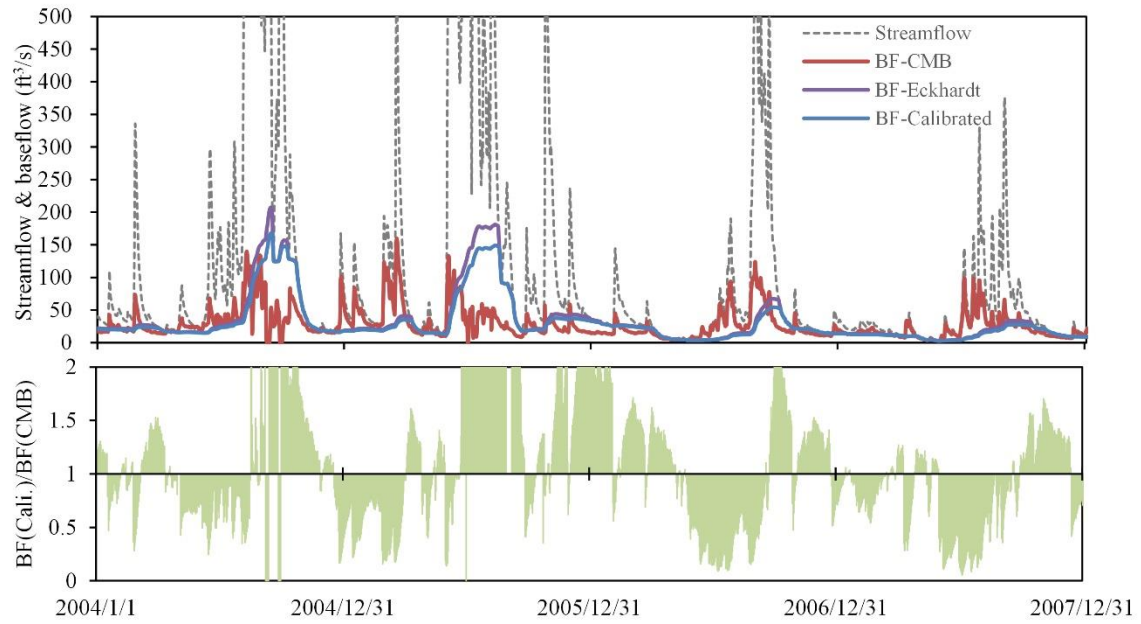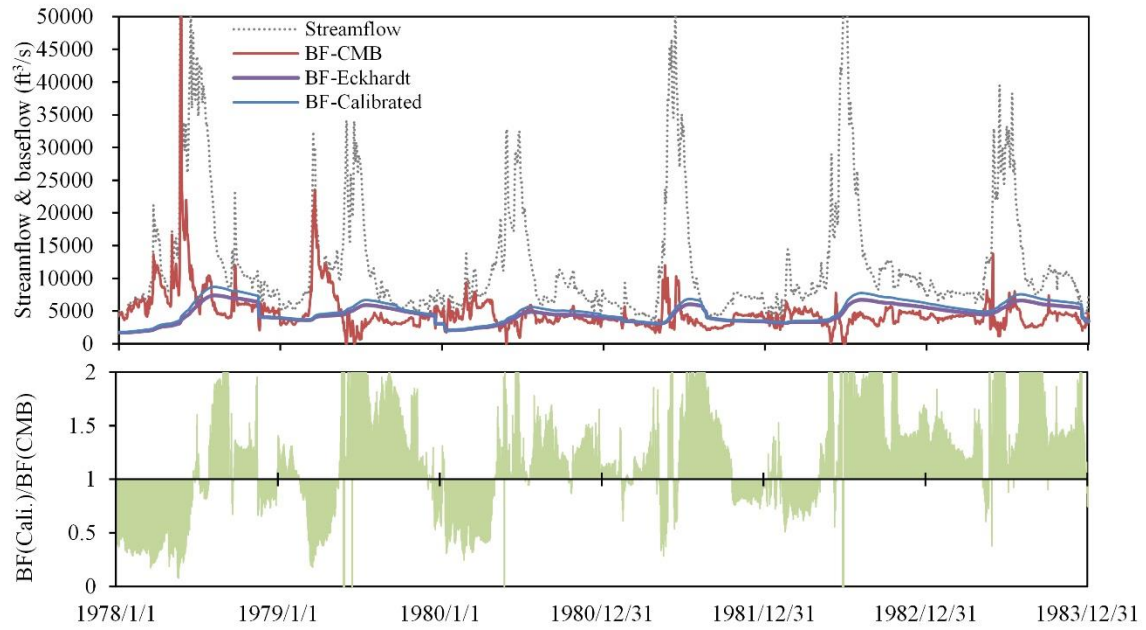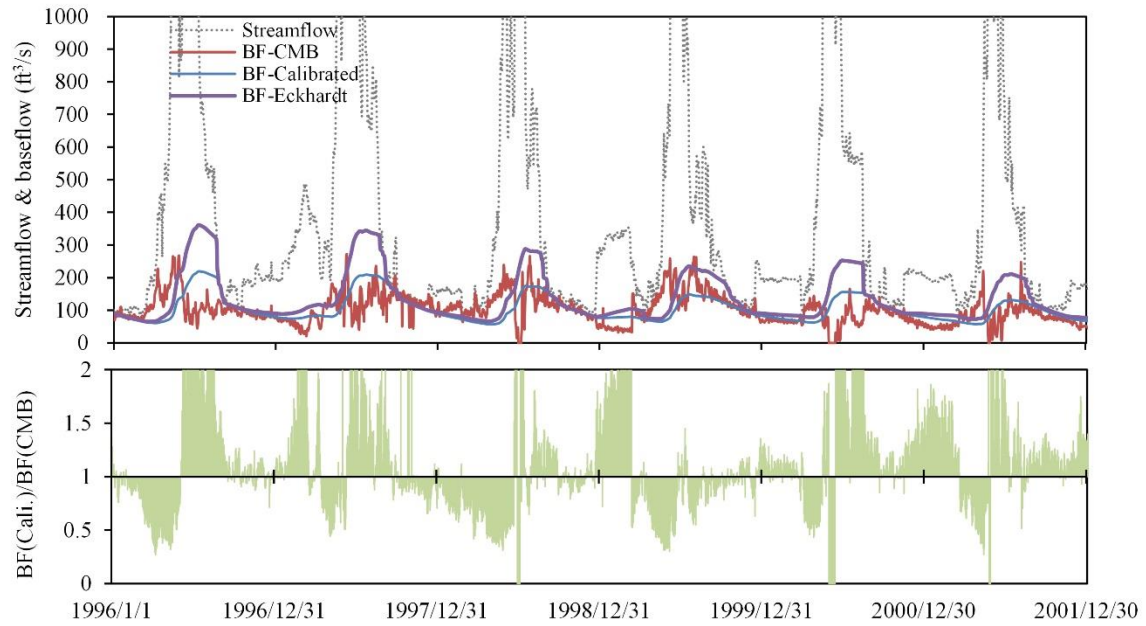| Sit number	State	Area (km^2)	N (days)	Correlation (Streamflow & SC)	α	BFI$_{max}$ Eck.	BFI$_{max}$ Cali.
02298202	FL	966	1808	-0.68	0.989	0.50	0.46
02303000	FL	570	728	-0.77	0.995	0.36	0.58
02306774	FL	46	851	-0.52	0.987	0.23	0.26
02297100	FL	342	2979	-0.60	0.994	0.45	0.39
08068275	TX	482	2801	-0.52	0.990	0.50	0.50
02160105	SC	1966	1363	-0.61	0.989	0.51	0.39
02160700	SC	1150	1392	-0.62	0.993	0.52	0.42
02207120	GA	417	1391	-0.52	0.991	0.36	0.27
03007800	PA	642	3288	-0.51	0.984	0.39	0.24
03044000	PA	3517	2923	-0.66	0.997	0.22	0.40
03072655	PA	11500	2192	-0.51	0.978	0.35	0.30
03106000	PA	922	3288	-0.48	0.991	0.24	0.24
03201980	OH	258	2193	-0.50	0.990	0.19	0.40
03321500	KY	23779	1017	-0.74	0.984	0.28	0.38
06037500	MT	1127	1096	-0.86	0.998	0.86	0.67
06296120	MT	110973	3288	-0.66	0.997	0.44	0.49
06711565	CO	8782	4018	-0.55	0.993	0.27	0.17
07079300	CO	129	1827	-0.64	0.989	0.47	0.27
07086000	CO	1106	3288	-0.61	0.994	0.40	0.26
07119700	CO	28234	3288	-0.62	0.993	0.37	0.50
03036000	PA	891	3288	-0.61	0.995	0.19	0.53
03067510	WV	156	3288	-0.51	0.990	0.20	0.29
03374100	IN	29280	2558	-0.70	0.989	0.45	0.36
06089000	MT	4595	3288	-0.63	0.997	0.36	0.46
07081200	CO	257	1827	-0.74	0.985	0.55	0.24
07097000	CO	10422	3288	-0.74	0.996	0.45	0.54
Average					0.991	0.39	0.39
SD					0.005	0.15	0.12

Figure S1

Figure S1. Bias between daily baseflow series generated by the conductivity mass balance (CMB) and Eckhardt methods after calibration for the United States Geological Survey (USGS) station 02297100. BF represents baseflow.

Figure S2

Figure S2. Bias between daily baseflow series generated by the conductivity mass balance (CMB) and Eckhardt methods after calibration for the United States Geological Survey (USGS) station 06296120. BF represents baseflow.
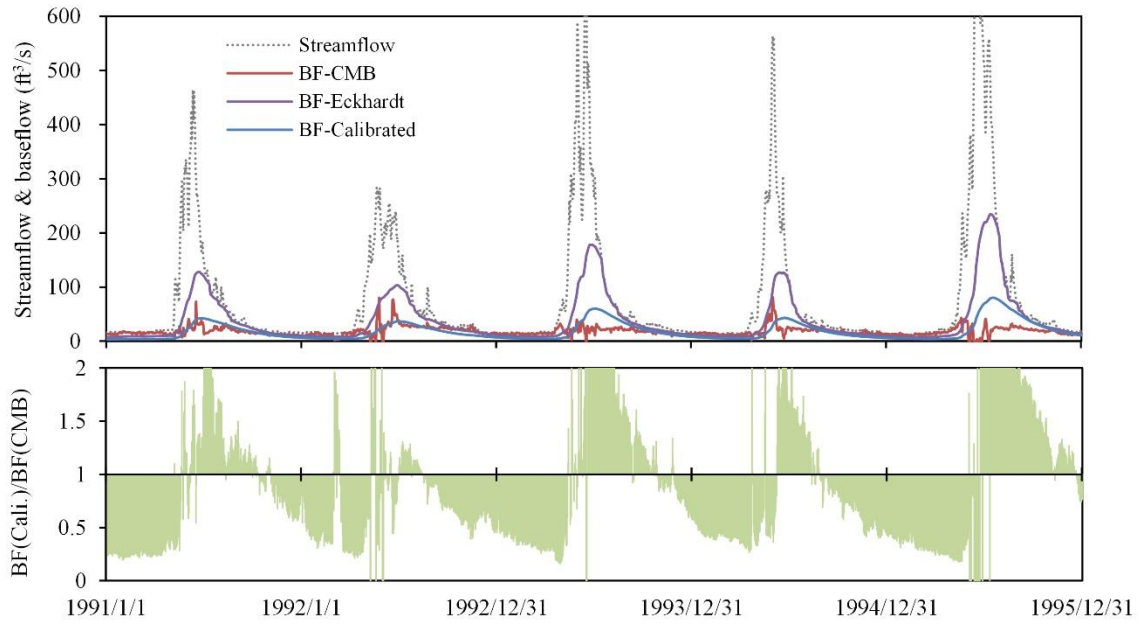
Figure S3

Figure S3. Bias between daily baseflow series generated by the conductivity mass balance (CMB) and Eckhardt methods after calibration for the United States Geological Survey (USGS) station 07086000. BF represents baseflow.

Figure S4

Figure S4. Bias between daily baseflow series generated by the conductivity mass balance (CMB) and Eckhardt methods after calibration for the United States Geological Survey (USGS) station 07081200. BF represents baseflow.
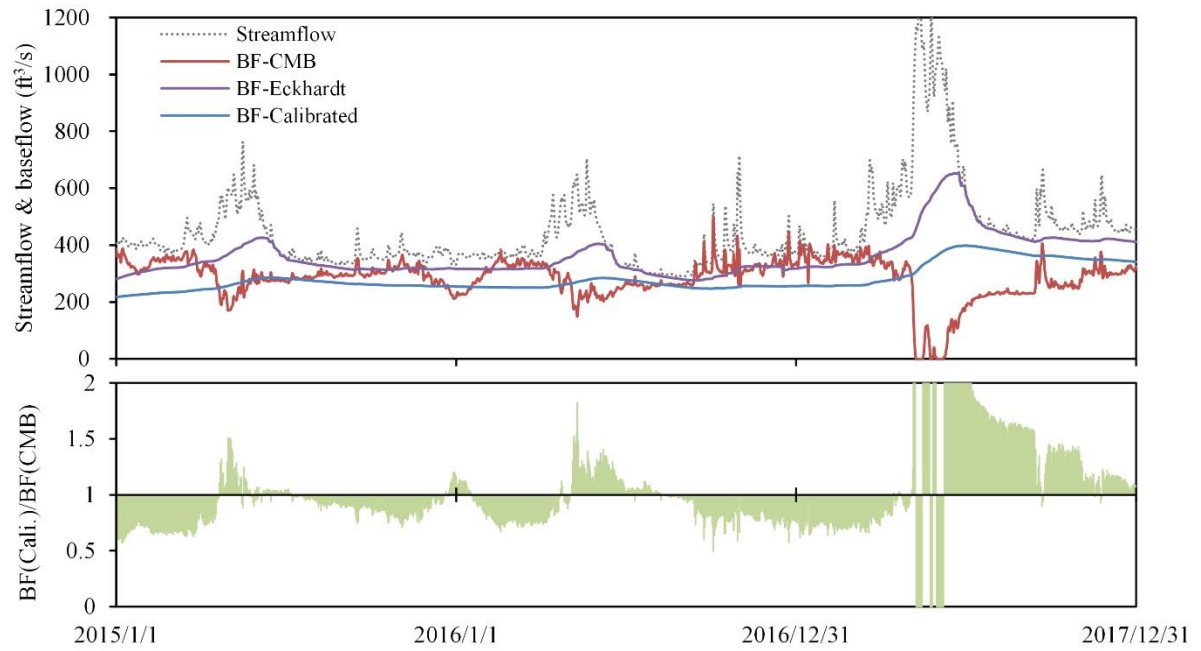
Figure S5

Figure S5. Bias between daily baseflow series generated by the conductivity mass balance (CMB) and Eckhardt methods after calibration for the United States Geological Survey (USGS) station 0603750. BF represents baseflow.