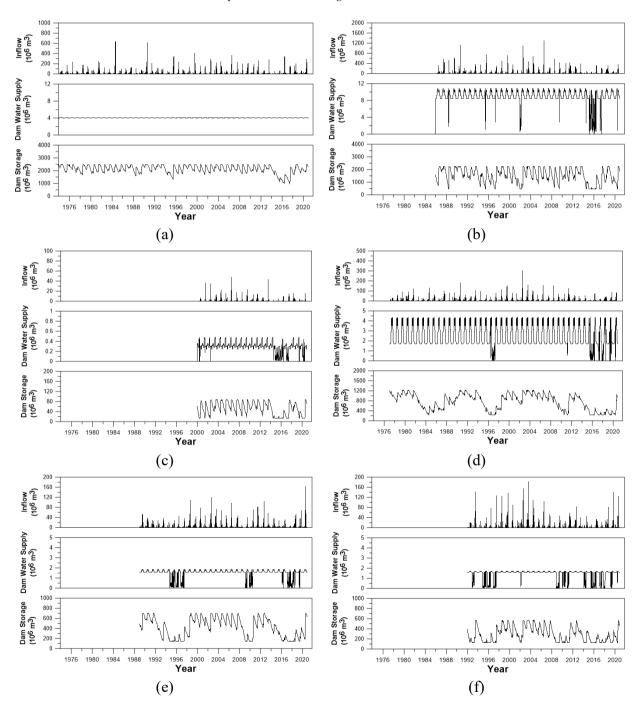
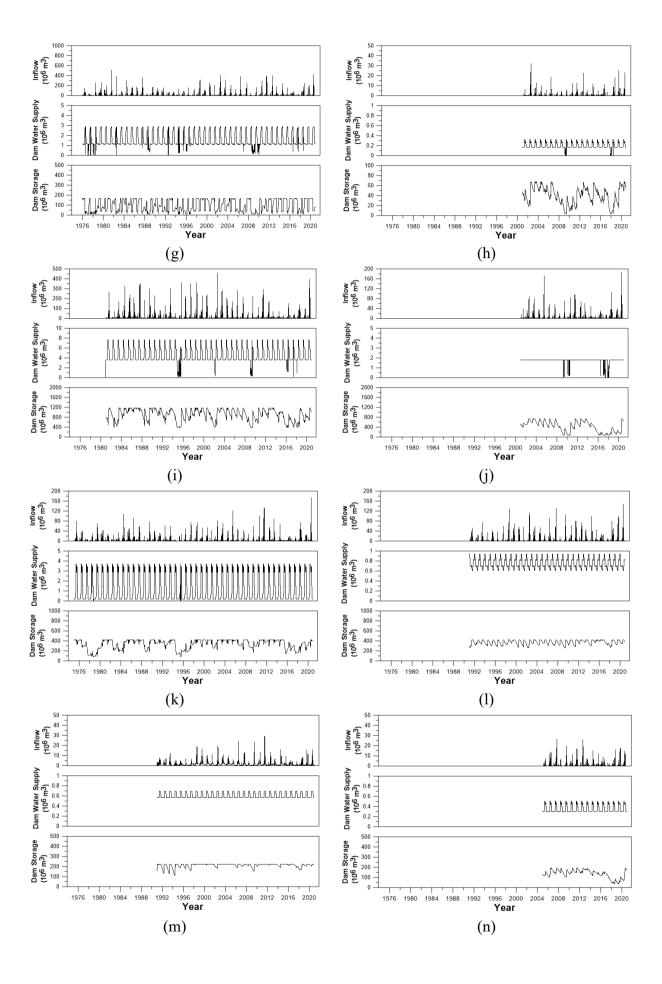
Evaluation of Dam Water-Supply Capacity in Korea Using the Water-Shortage Index

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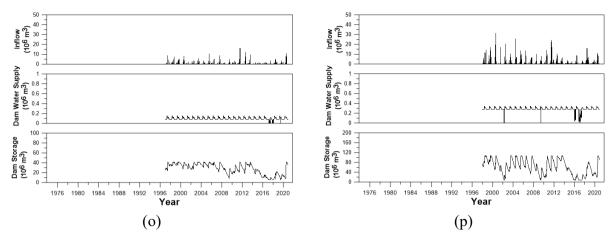
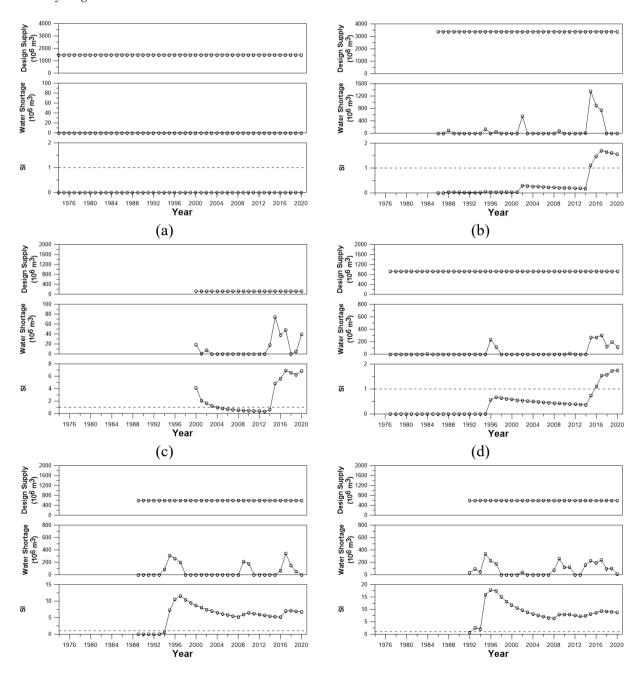
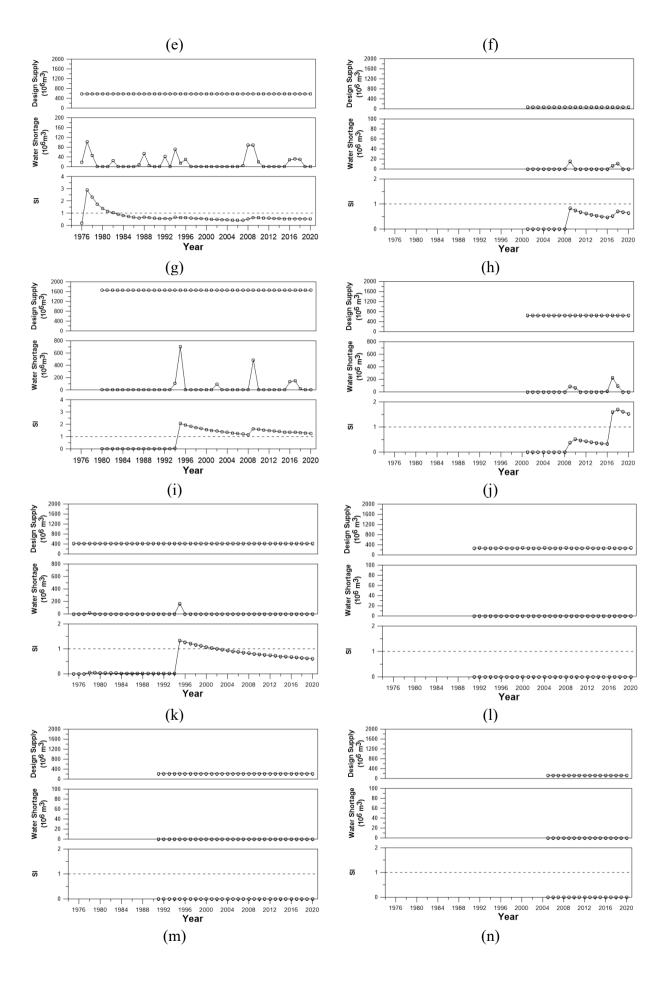


Figure S1. Simulation results of multi-purpose dams in Korea: (a) Soyanggang Dam; (b) Chungju Dam; (c) Heongseong Dam; (d) Andong Dam; (e) Hapcheon Dam; (f) Imha Dam; (g) Namgang Dam; (h) Miryang Dam; (i) Daecheong Dam; (j) Yongdam Dam; (k) Seomjingang Dam; (l) Juam Dam; (m) Juam Controlled Dam; (n) Jangheung Dam; (o) Buan Dam; (p) Boryeong Dam.





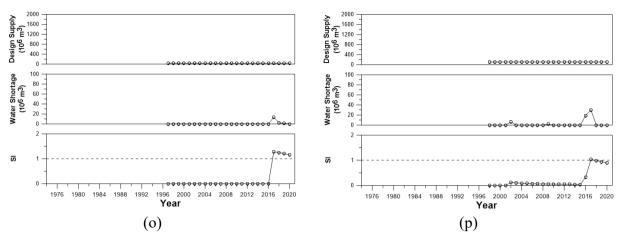
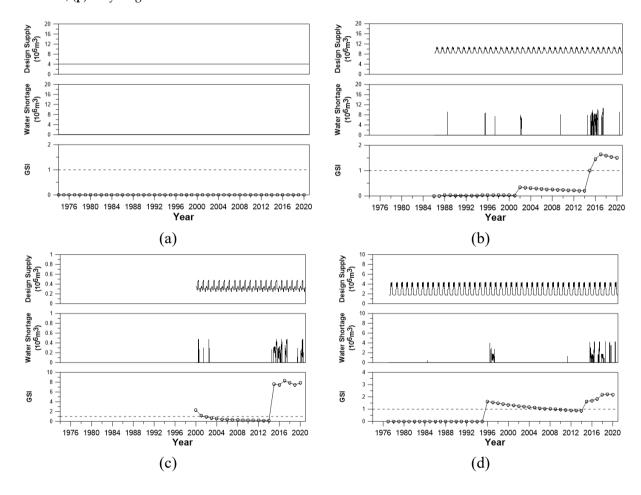
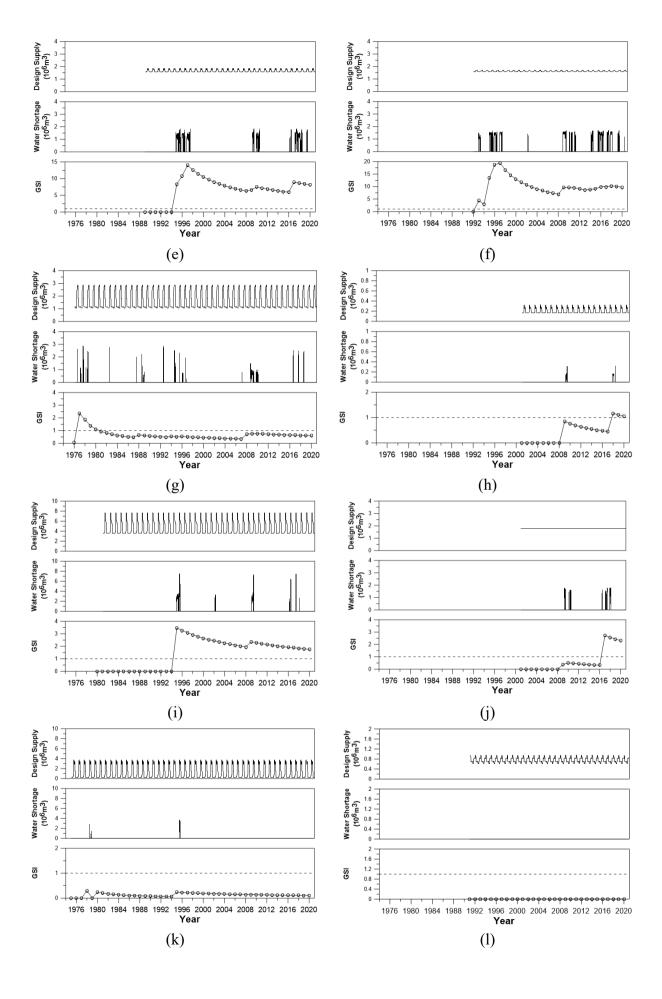


Figure S2. Estimation results of *SI* for multi-purpose dams in Korea: (a) Soyanggang Dam; (b) Chungju Dam; (c) Heongseong Dam; (d) Andong Dam; (e) Hapcheon Dam; (f) Imha Dam; (g) Namgang Dam; (h) Miryang Dam; (i) Daecheong Dam; (j) Yongdam Dam; (k) Seomjingang Dam; (l) Juam Dam; (m) Juam Controlled Dam; (n) Jangheung Dam; (o) Buan Dam; (p) Boryeong Dam.





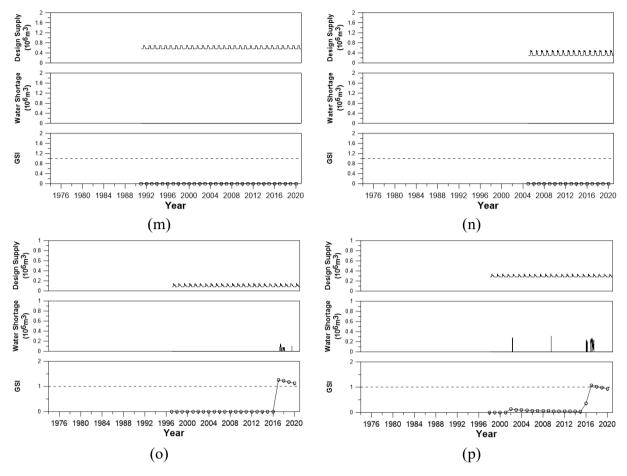
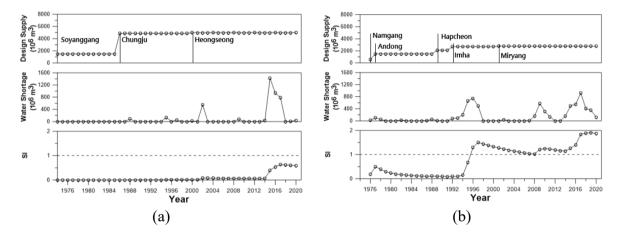


Figure S3. Estimation results of *GSI* for multi-purpose dams in Korea: (a) Soyanggang Dam; (b) Chungju Dam; (c) Heongseong Dam; (d) Andong Dam; (e) Hapcheon Dam; (f) Imha Dam; (g) Namgang Dam; (h) Miryang Dam; (i) Daecheong Dam; (j) Yongdam Dam; (k) Seomjingang Dam; (l) Juam Dam; (m) Juam Controlled Dam; (n) Jangheung Dam; (o) Buan Dam; (p) Boryeong Dam.



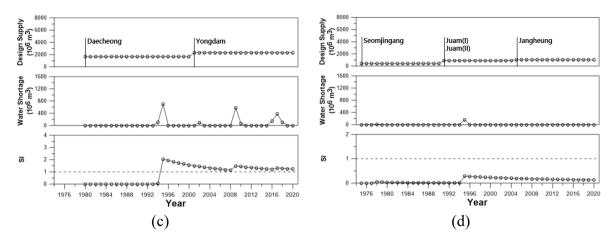


Figure S4. Estimation results of *SI* for major river basins in Korea: (a) Han River Basin; (b) Nakdong River Basin; (c) Geum River Basin; (d) Seomjin River Basin (Here, Juam (I) and Juam (II) correspond to the Juam Dam and the Juam Controlled Dam, respectively).

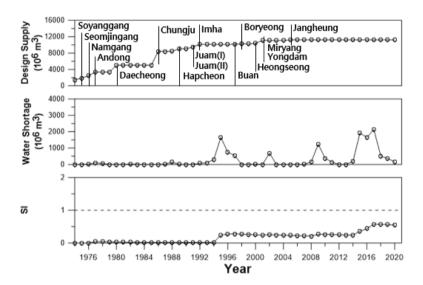


Figure S5. Estimation results of *SI* for the total river basin in Korea (Here, Juam (I) and Juam (II) correspond to the Juam Dam and the Juam Controlled Dam, respectively).