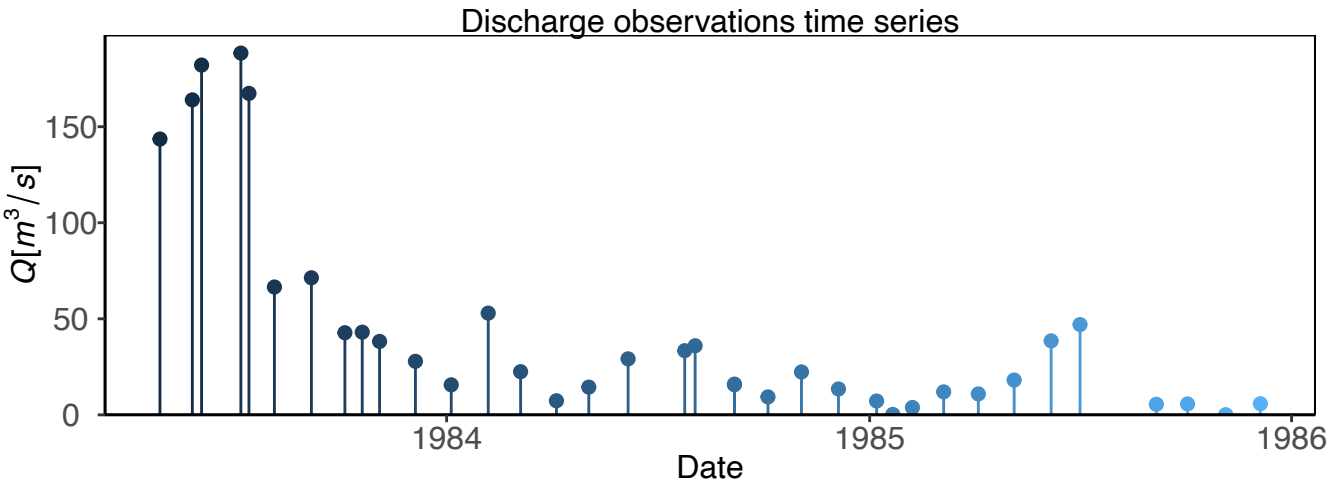
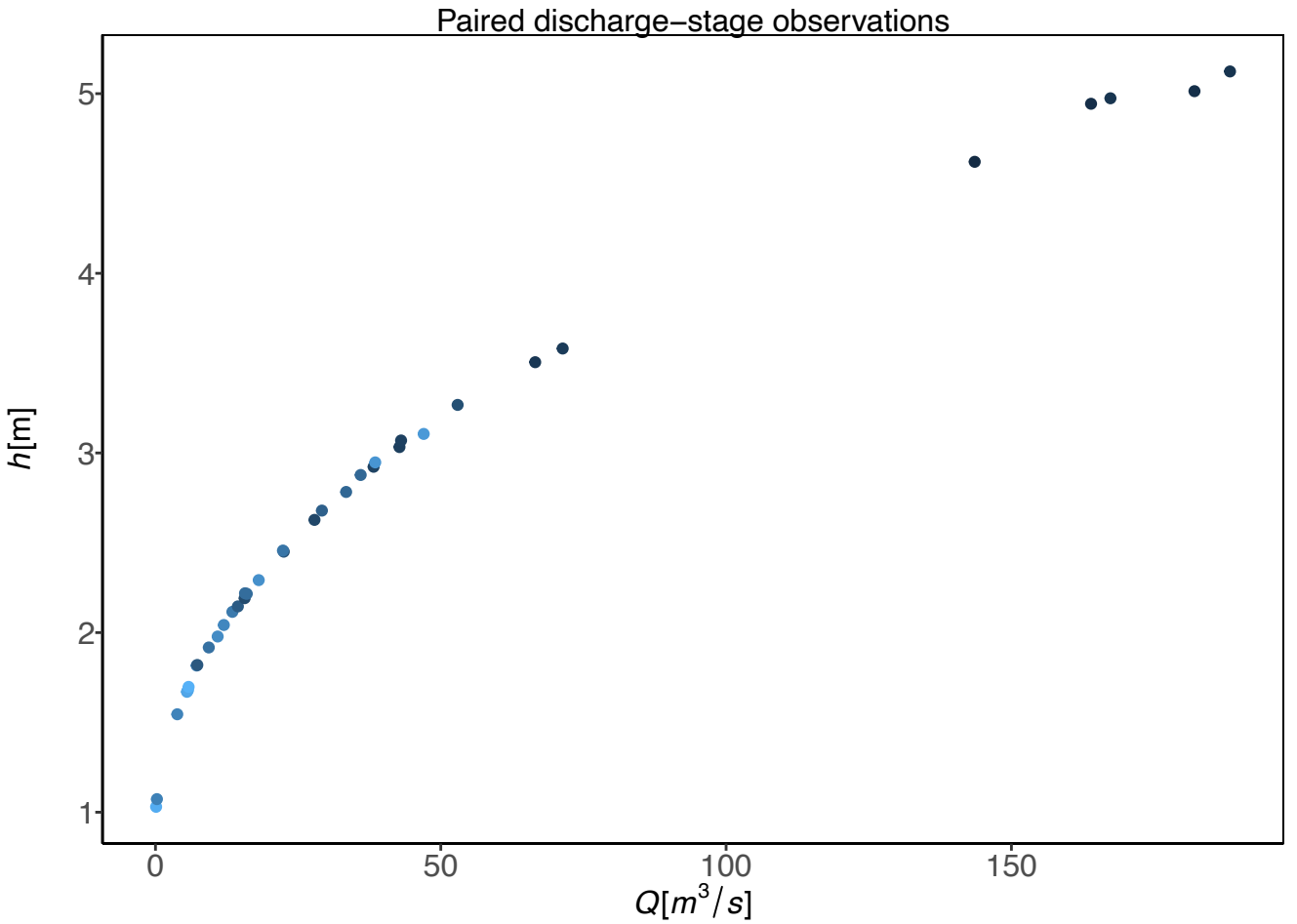
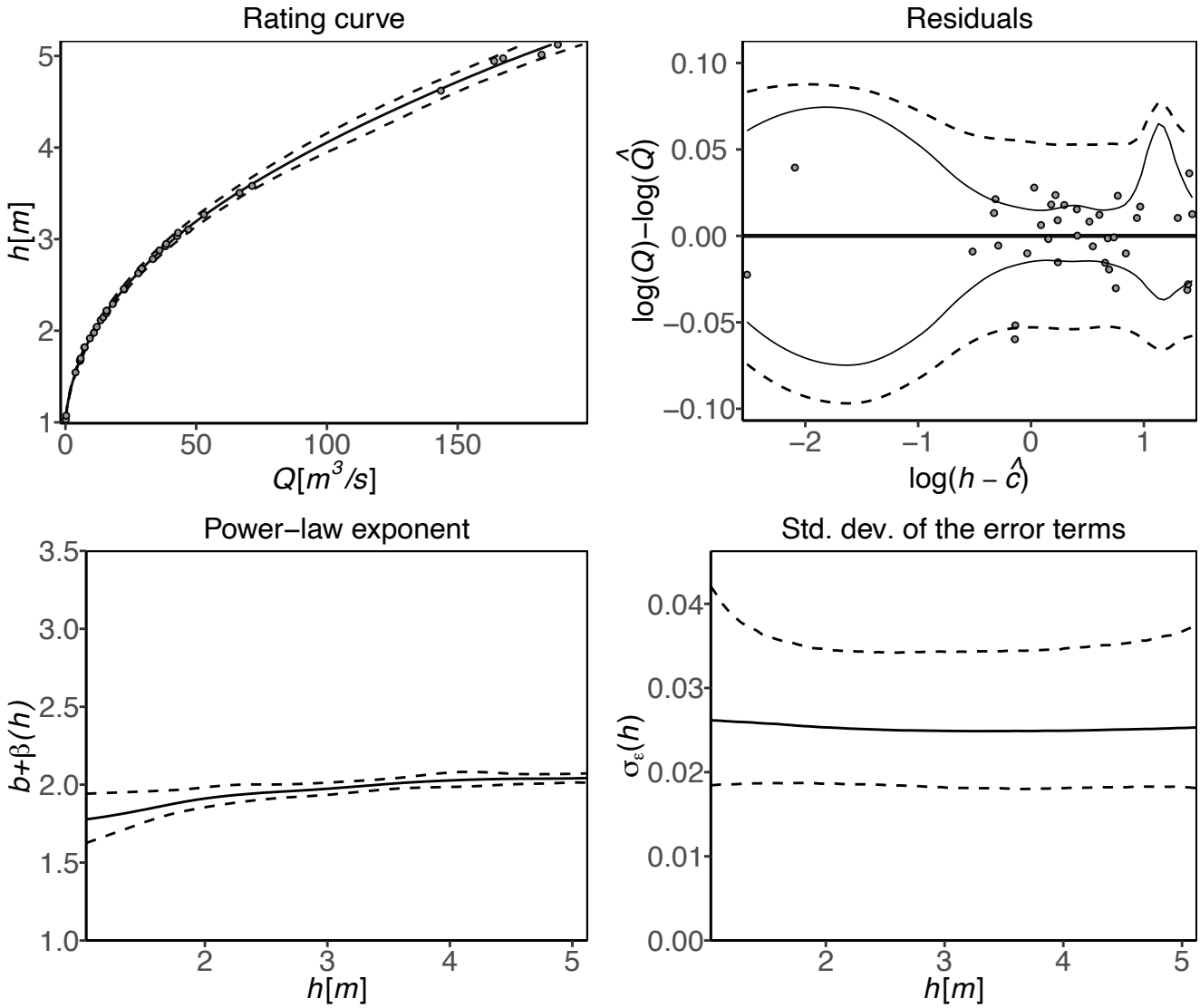
Station name:	Kern
Location:	California, USA
Station number:	11192500
Number of observations:	36
Start date:	1983–04–28
End date:	1985–12–05
Max. discharge (m^3/s):	188.3
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.45	0.44
GPLM0	0.00	0.56
PLM	26.72	0.00
PLM0	32.72	0.00



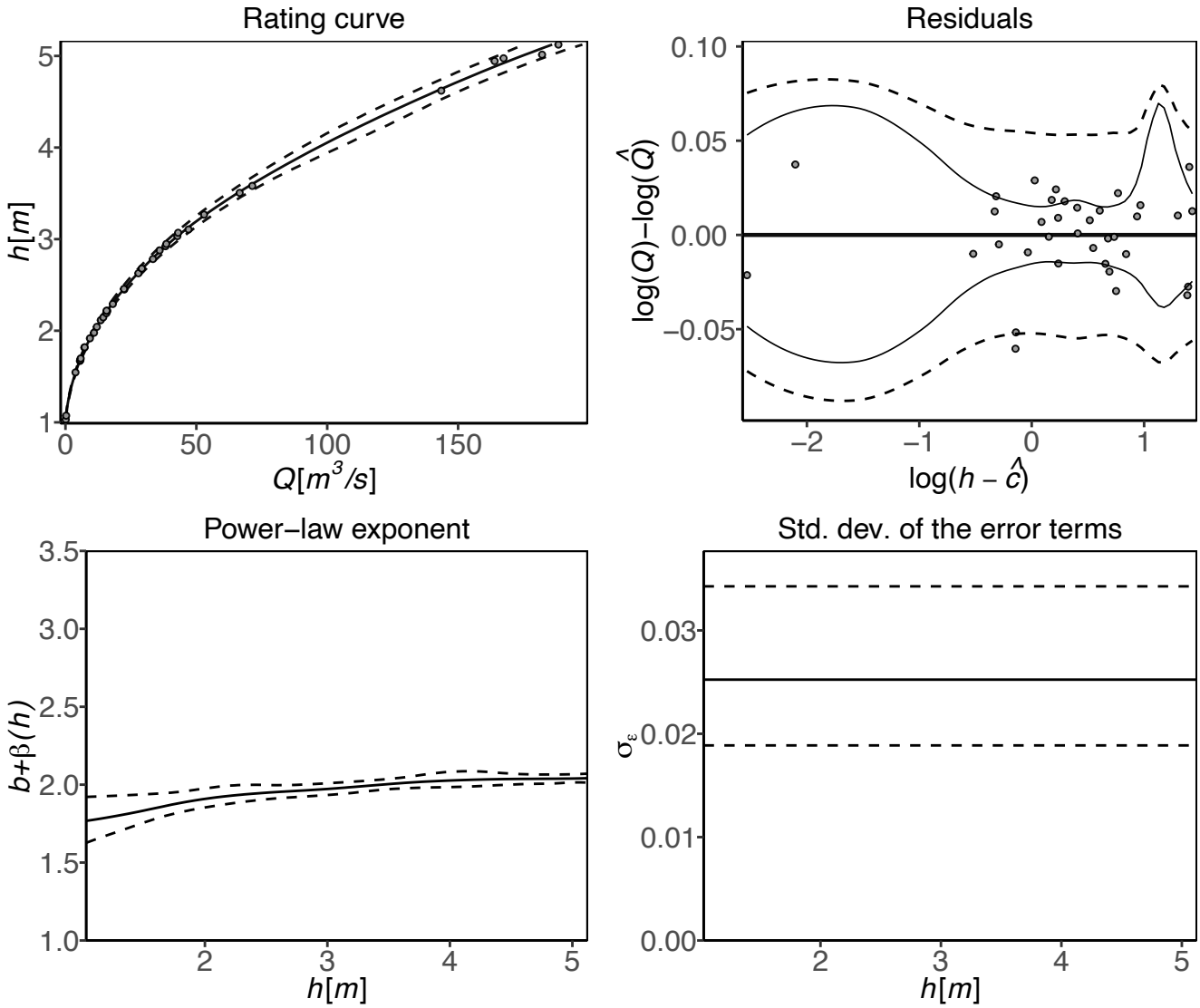


Kern, Usa – GPLM



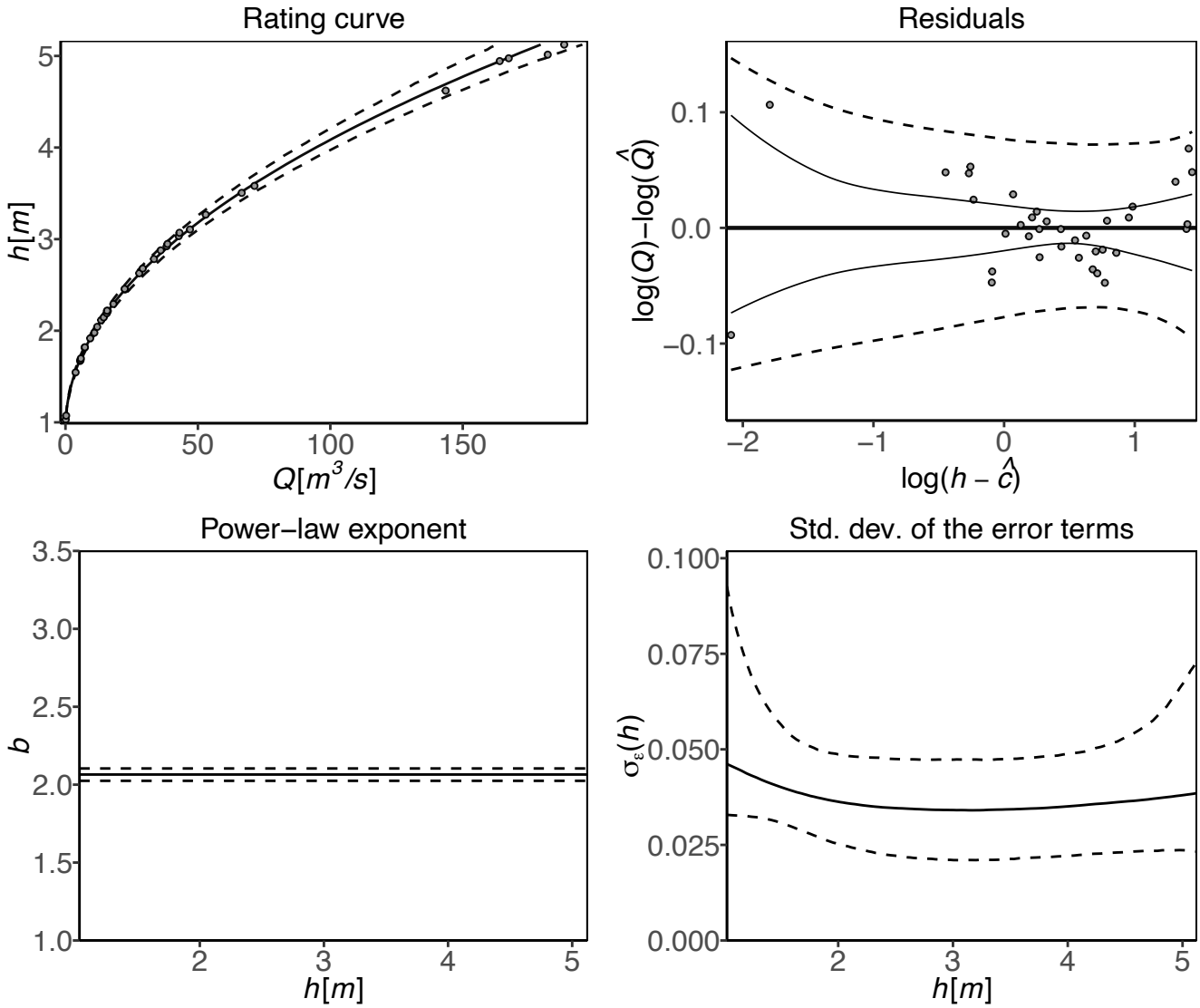
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.05	[9.61; 10.41]	1765	1.00
b	1.84	[1.83; 1.84]	8827	1.00
c	0.95	[0.93; 0.97]	1554	1.00
σ_β	0.21	[0.09; 0.62]	2437	1.00
ϕ_β	3.60	[1.00; 16.60]	1405	1.00
σ_η	0.09	[0.00; 0.51]	1523	1.00
η_1	–7.29	[–7.99; –6.34]	1579	1.00
η_2	–7.50	[–9.31; –5.64]	2204	1.00
η_3	–7.75	[–10.24; –5.02]	2191	1.00
η_4	–7.78	[–10.83; –4.43]	2214	1.00
η_5	–7.72	[–11.21; –4.02]	2128	1.00
η_6	–7.60	[–11.48; –3.43]	2185	1.00

Kern, Usa – GPLM0



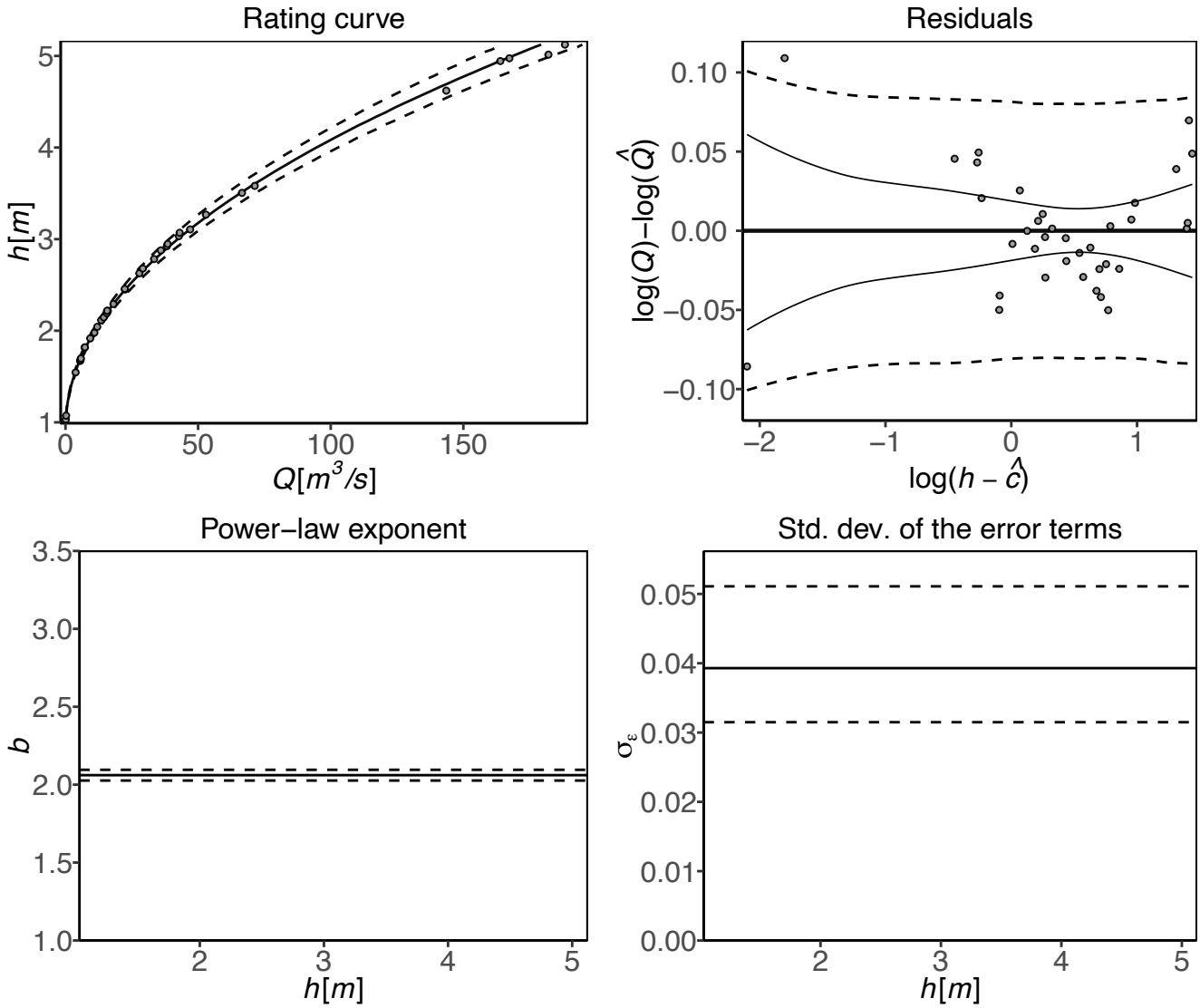
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.06	[9.68; 10.41]	4758	1.00
b	1.84	[1.83; 1.84]	12484	1.00
c	0.95	[0.93; 0.97]	4139	1.00
σ_ε	0.03	[0.02; 0.03]	3988	1.00
σ_β	0.46	[0.31; 0.78]	5950	1.00
ϕ_β	3.32	[0.95; 14.76]	3522	1.00

Kern, Usa – PLM



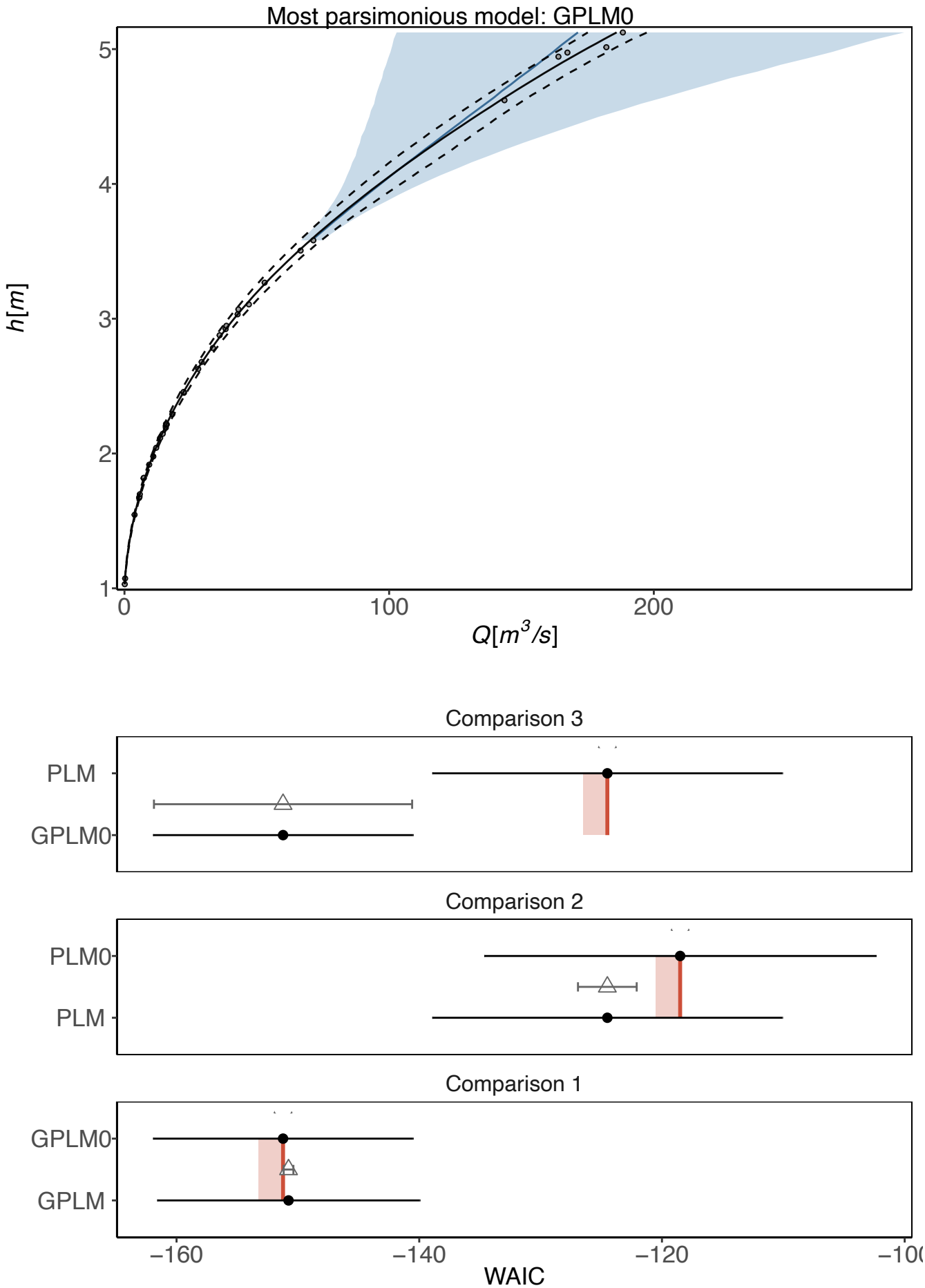
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.19	[8.82; 9.52]	2630	1.01
b	2.07	[2.02; 2.10]	3406	1.00
c	0.91	[0.89; 0.92]	2439	1.00
σ_η	0.28	[0.01; 0.96]	831	1.07
η_1	–6.15	[–6.83; –4.76]	1421	1.02
η_2	–7.10	[–8.76; –5.43]	1412	1.03
η_3	–7.99	[–10.10; –5.37]	1659	1.01
η_4	–7.95	[–10.62; –4.92]	2321	1.00
η_5	–7.57	[–10.88; –4.39]	2366	1.00
η_6	–7.20	[–11.11; –3.83]	2353	1.00

Kern, Usa – PLM0



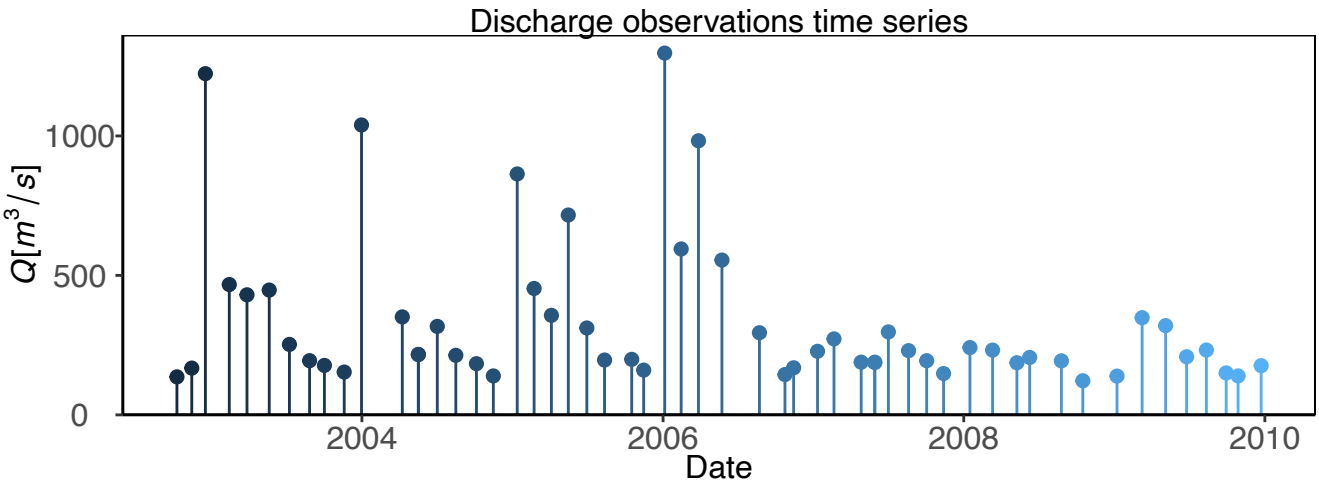
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.24	[8.94; 9.55]	10373	1.00
b	2.06	[2.03; 2.10]	10905	1.00
c	0.91	[0.90; 0.92]	9597	1.00
σ_ε	0.04	[0.03; 0.05]	8420	1.00

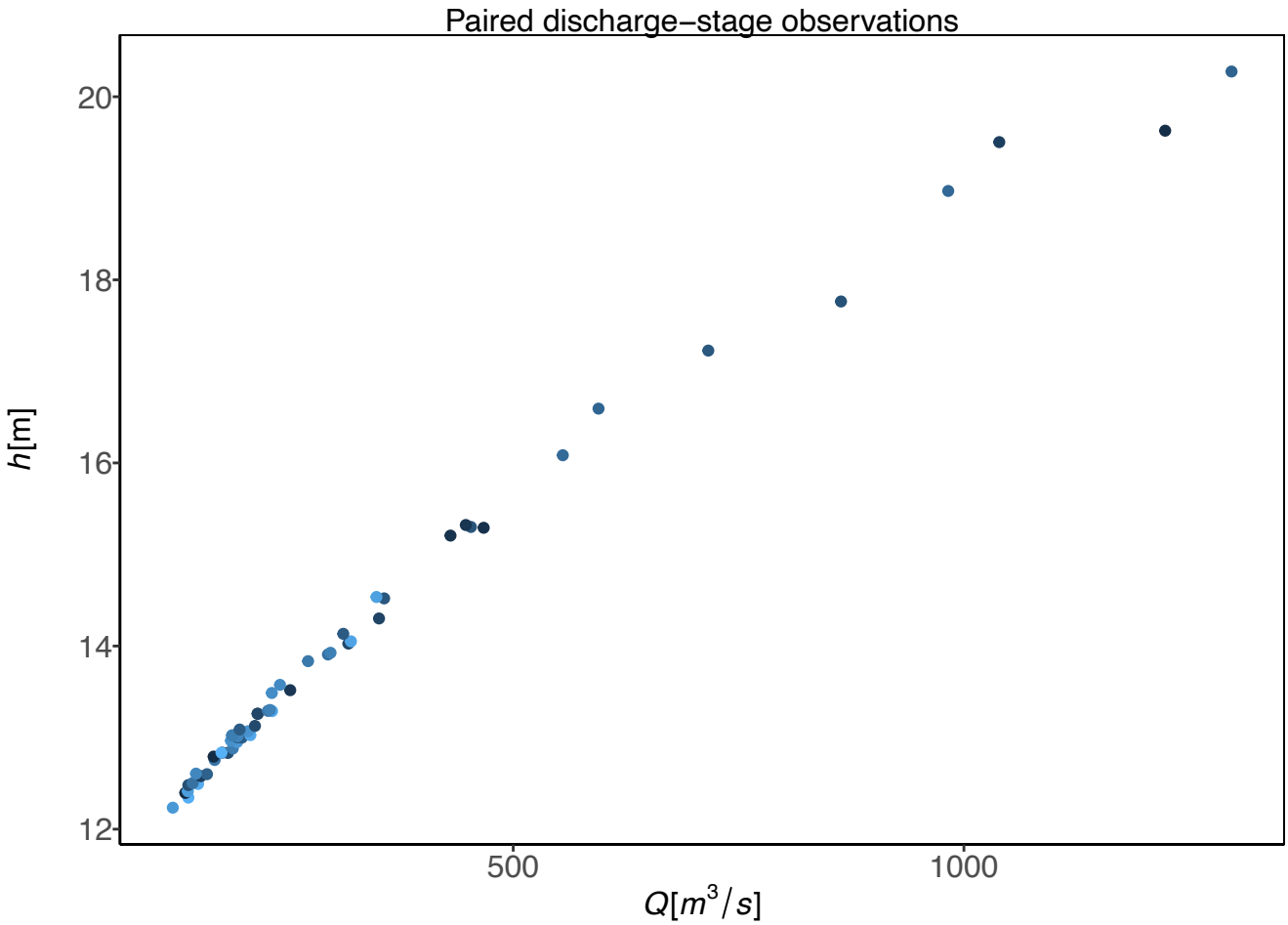
Power−law tournament results for Kern, Usa



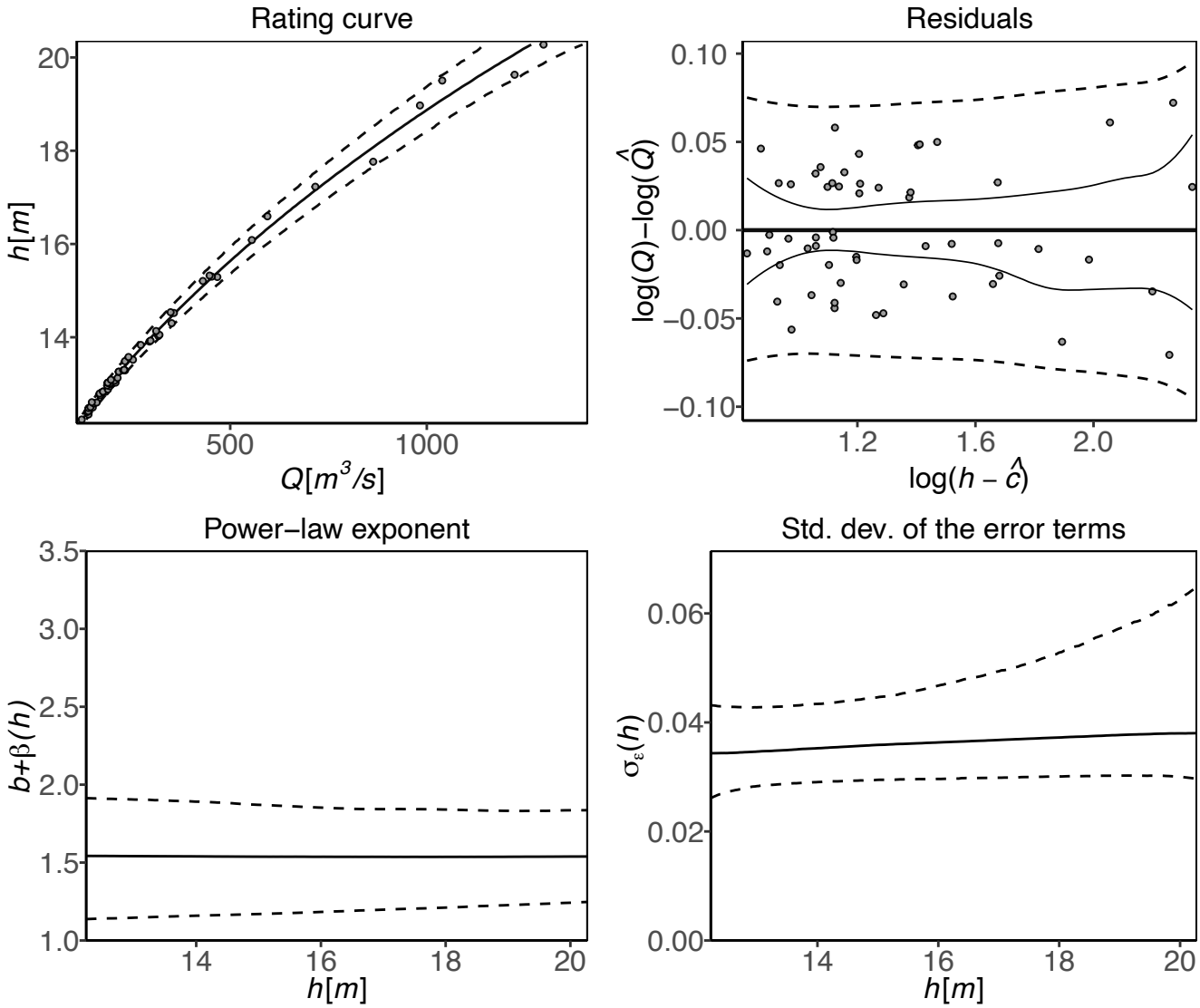
Station name:	Sacramento Colusa
Location:	California, USA
Station number:	11389500
Number of observations:	56
Start date:	2002–10–09
End date:	2009–12–23
Max. discharge (m^3/s):	1296.9
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.74	0.26
GPLM0	1.63	0.17
PLM	0.00	0.38
PLM0	1.38	0.19



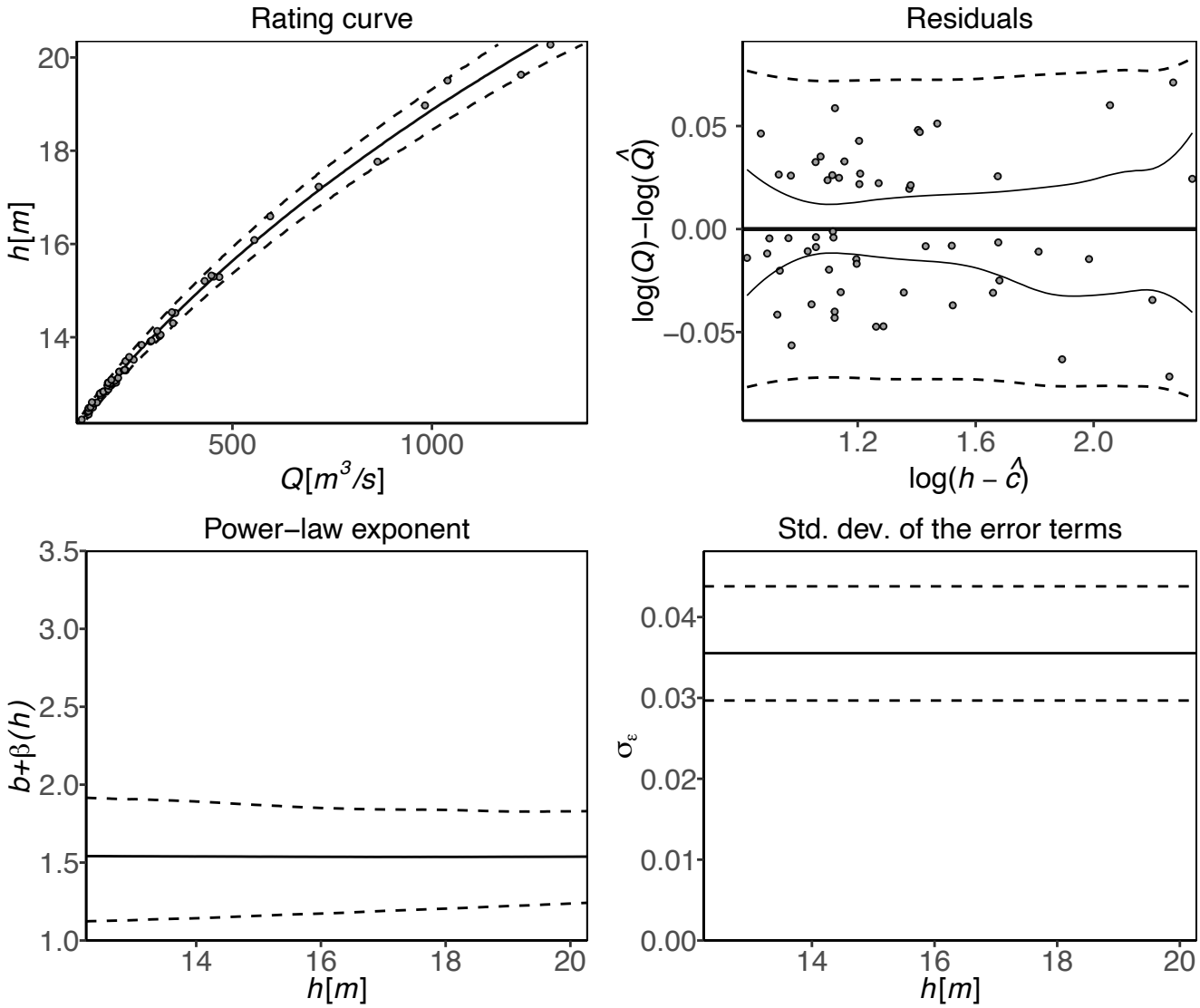


Sacramento Colusa, Usa – GPLM



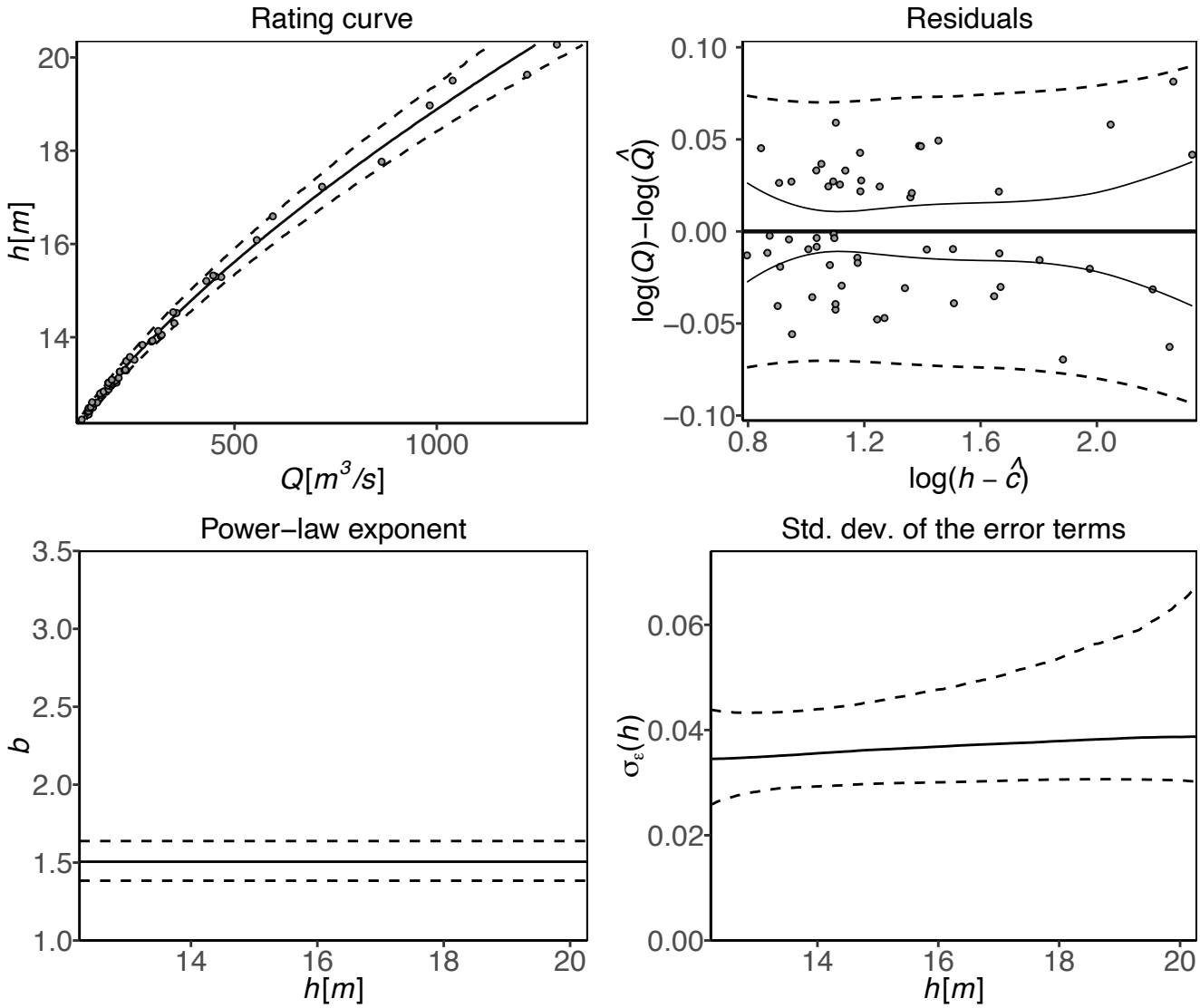
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.61	[15.73; 76.20]	1114	1.01
b	1.83	[1.83; 1.84]	8664	1.00
c	9.95	[9.20; 10.73]	1108	1.02
σ_β	0.24	[0.03; 0.73]	1122	1.01
ϕ_β	52.51	[2.71; 47908.96]	1028	1.01
σ_η	0.11	[0.00; 0.51]	1090	1.01
η_1	–6.74	[–7.29; –6.28]	2431	1.00
η_2	–6.57	[–8.38; –4.82]	1828	1.00
η_3	–6.26	[–8.90; –3.82]	1849	1.00
η_4	–5.81	[–9.05; –2.97]	1866	1.00
η_5	–5.46	[–9.25; –2.20]	2000	1.00
η_6	–5.31	[–9.81; –1.70]	2044	1.00

Sacramento Colusa, Usa – GPLM0



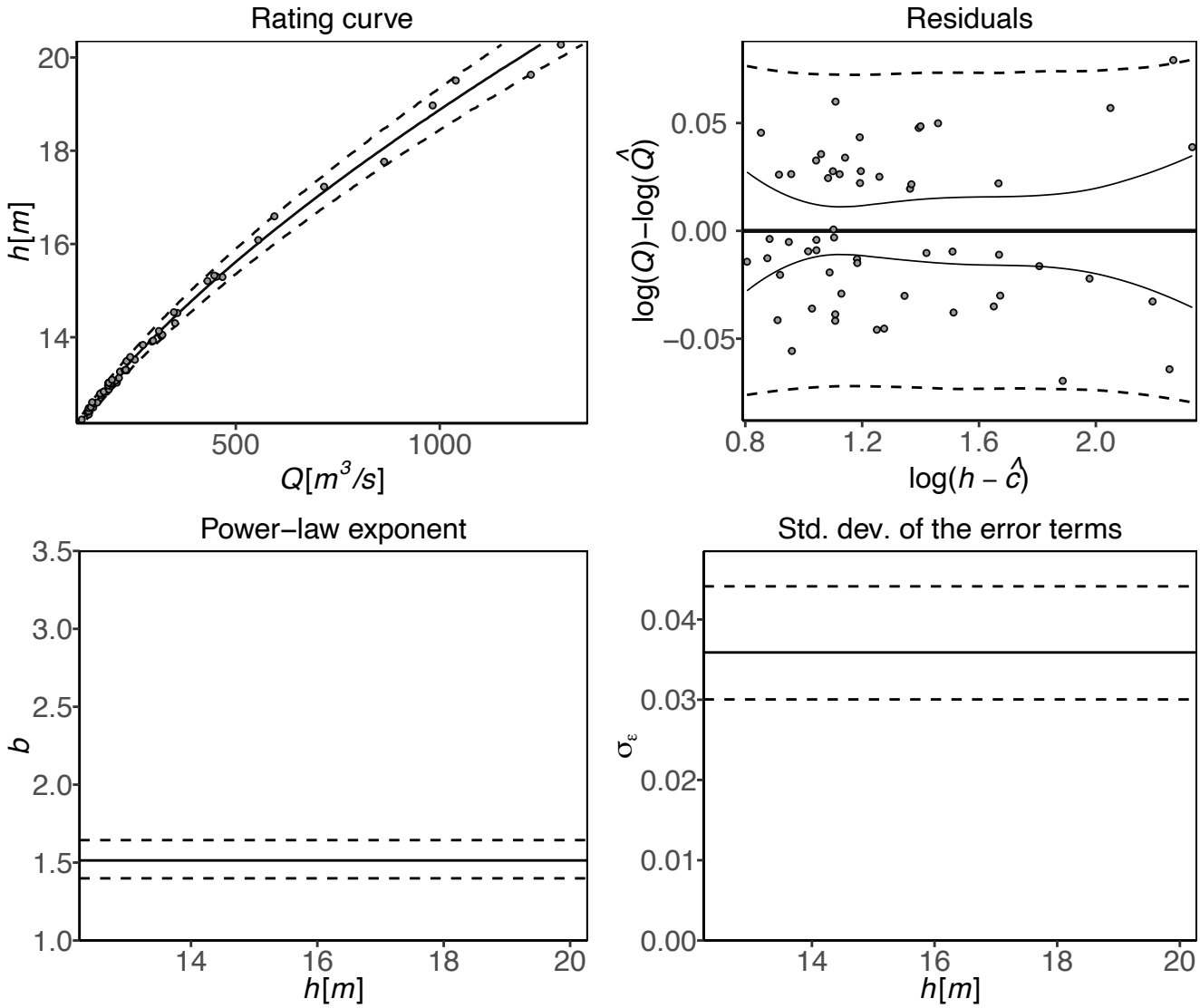
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.65	[15.93; 77.66]	3867	1.00
b	1.83	[1.83; 1.84]	8584	1.00
c	9.95	[9.23; 10.74]	3293	1.00
σ_ε	0.04	[0.03; 0.04]	3451	1.00
σ_β	0.49	[0.20; 0.86]	4611	1.00
ϕ_β	52.79	[3.49; 10413.66]	895	1.02

Sacramento Colusa, Usa – PLM



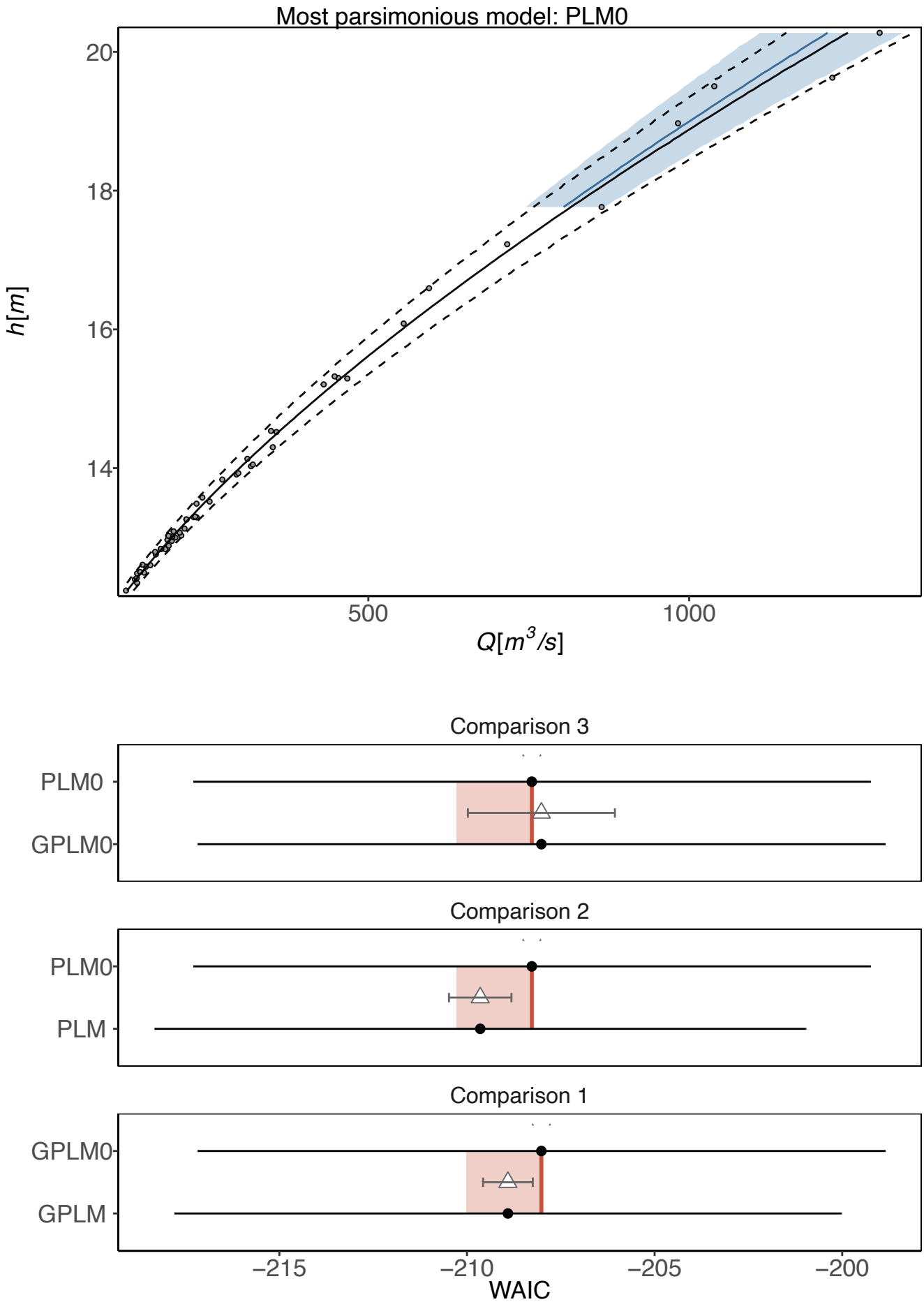
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	37.41	[26.68; 50.15]	2738	1.00
b	1.51	[1.38; 1.64]	2790	1.00
c	10.02	[9.65; 10.34]	2740	1.00
σ_η	0.12	[0.00; 0.52]	1131	1.01
η_1	–6.73	[–7.31; –6.25]	3005	1.00
η_2	–6.54	[–8.30; –4.73]	2433	1.00
η_3	–6.17	[–8.79; –3.71]	2446	1.00
η_4	–5.74	[–9.09; –2.79]	2257	1.00
η_5	–5.36	[–9.23; –2.02]	2607	1.00
η_6	–5.19	[–9.46; –1.50]	2775	1.00

Sacramento Colusa, Usa – PLM0



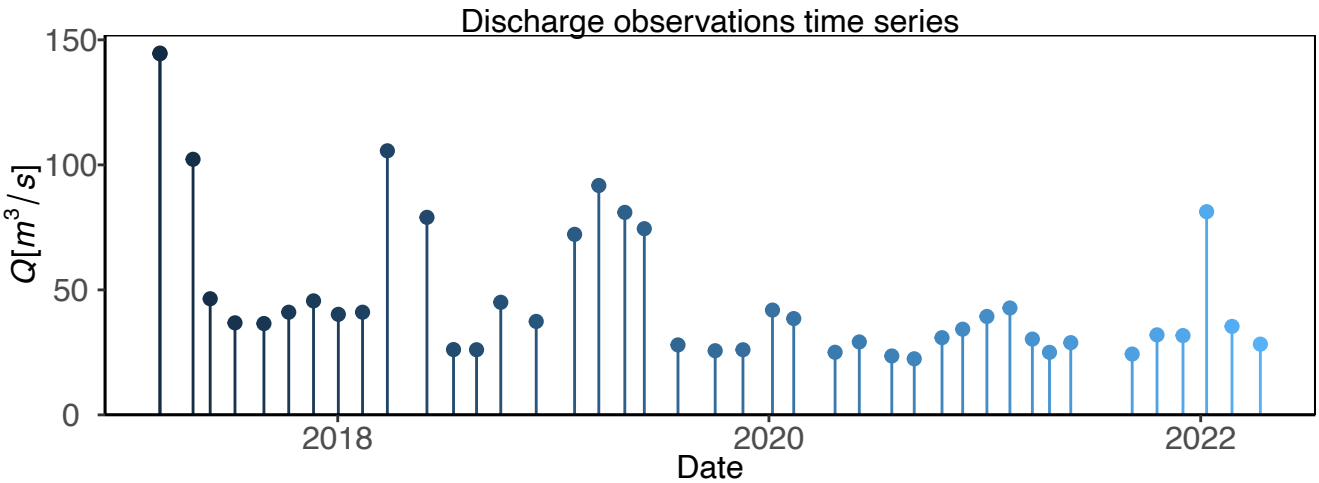
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	36.66	[26.20; 48.75]	10376	1.00
b	1.51	[1.40; 1.64]	10354	1.00
c	10.00	[9.62; 10.32]	10422	1.00
σ_ε	0.04	[0.03; 0.04]	9163	1.00

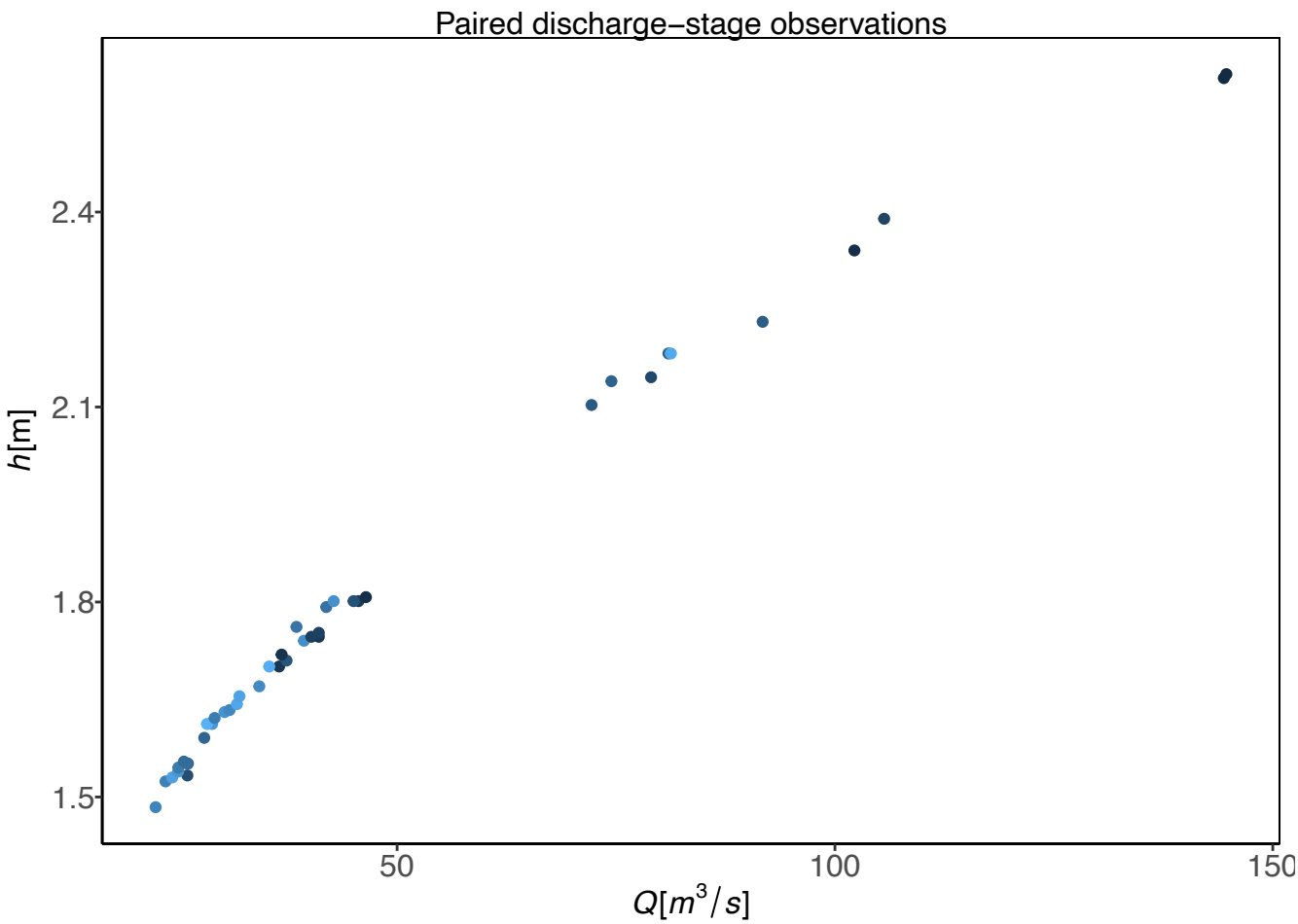
Power−law tournament results for Sacramento Colusa, Usa



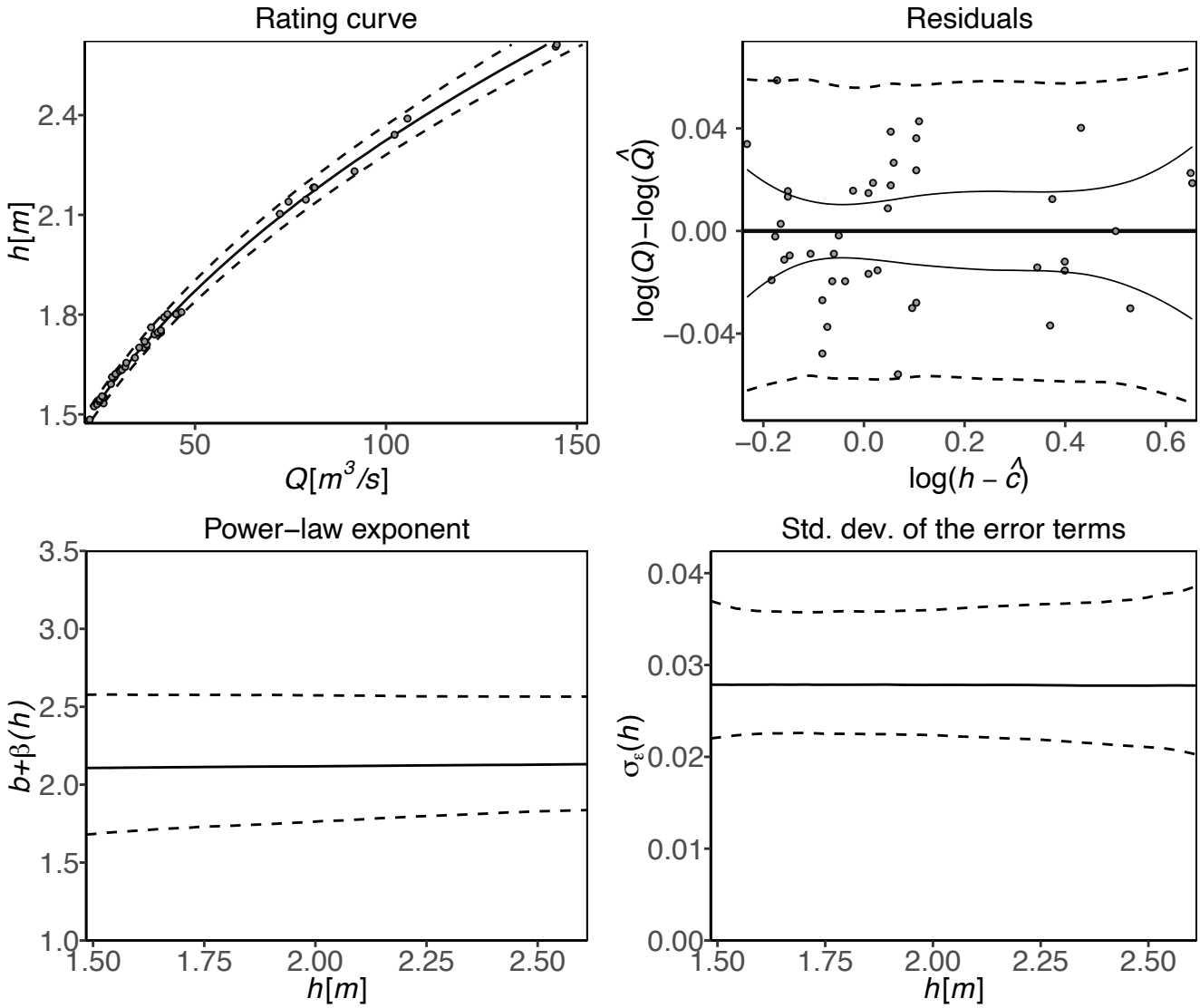
Station name:	Pit Fall River Mills
Location:	California, USA
Station number:	11355010
Number of observations:	42
Start date:	2017–03–06
End date:	2022–04–12
Max. discharge (m^3/s):	144.7
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	1.59	0.16
GPLM0	1.43	0.17
PLM	0.29	0.31
PLM0	0.00	0.36



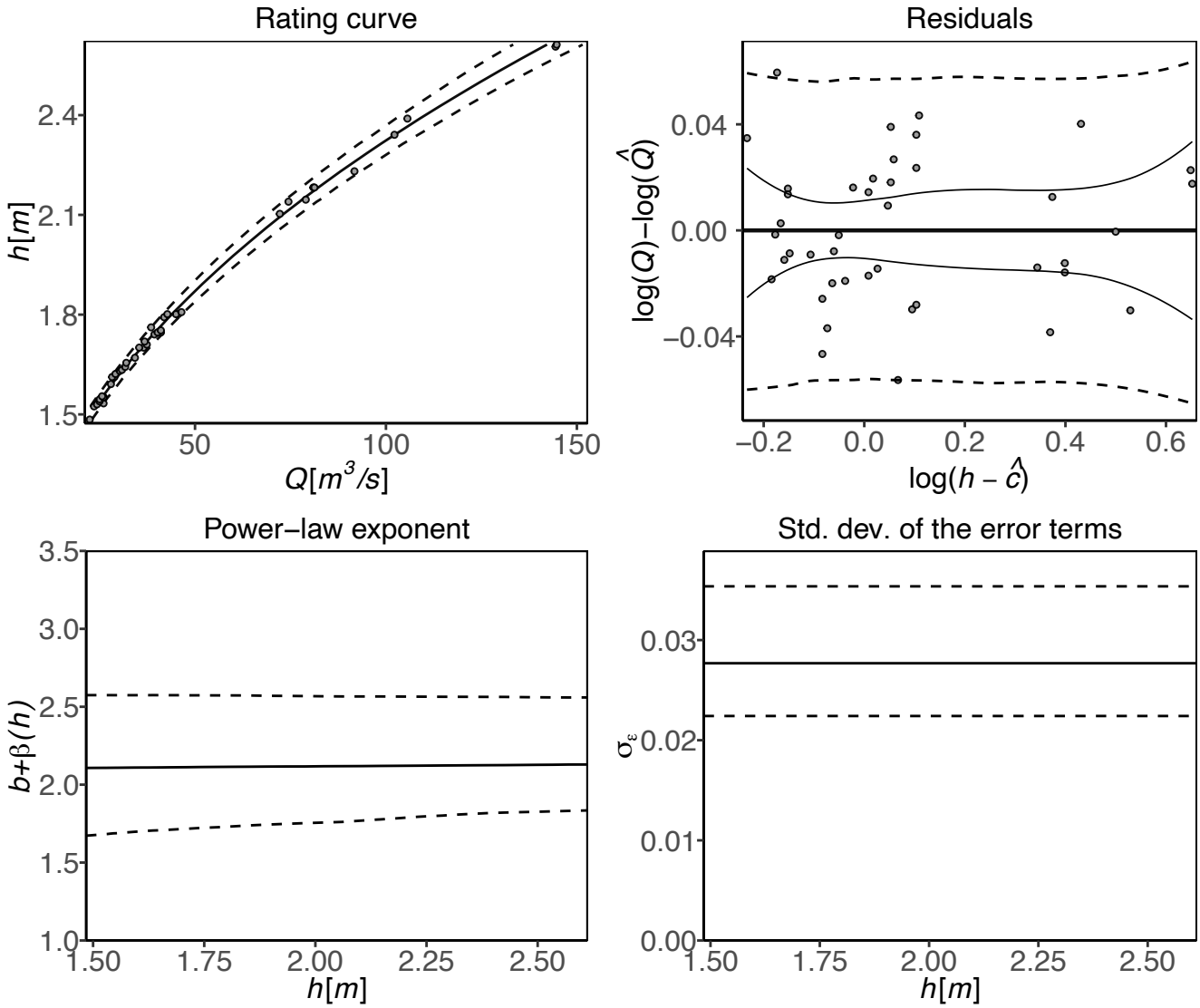


Pit Fall River Mills, Usa – GPLM



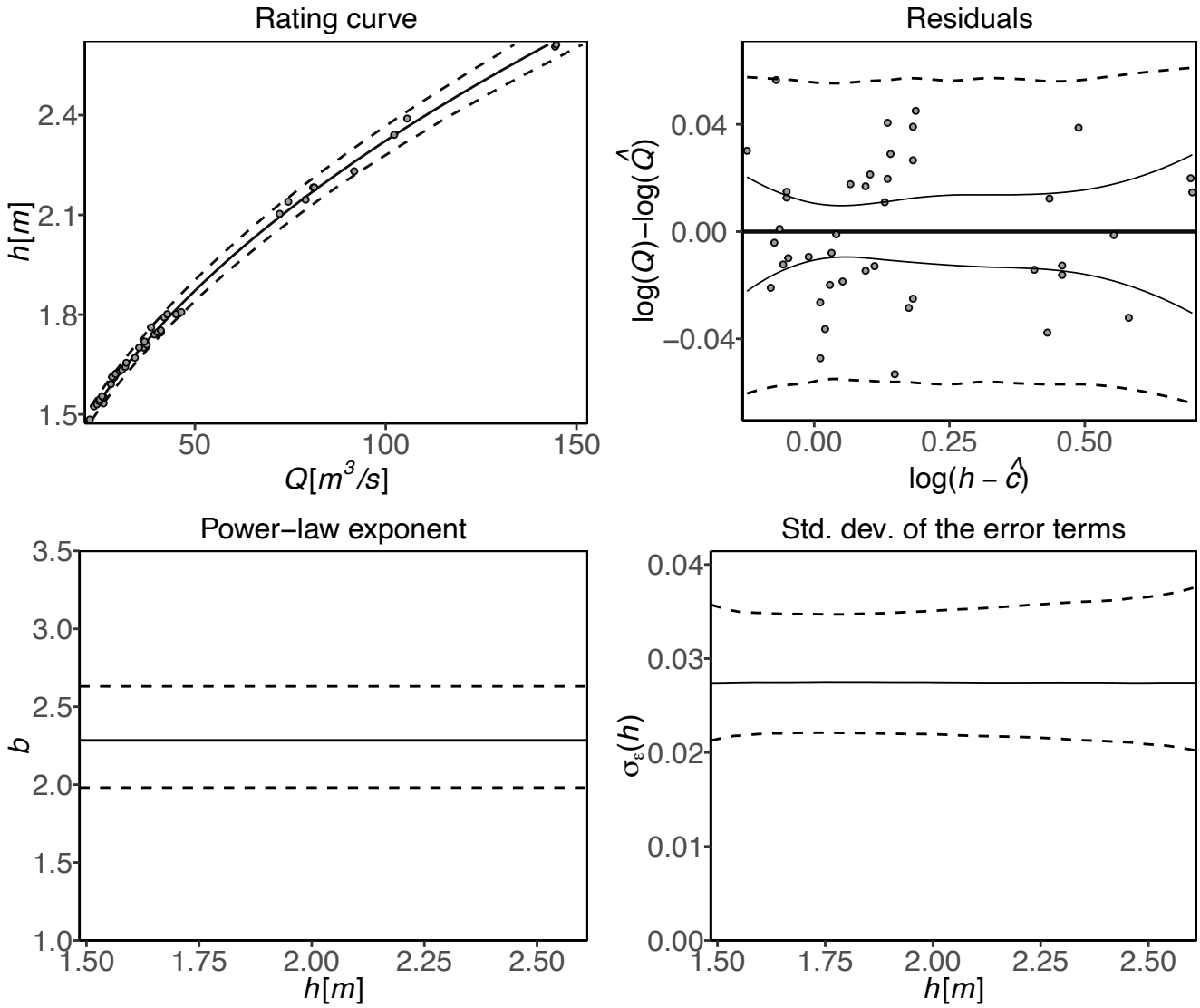
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	35.31	[19.86; 51.68]	2042	1.00
b	1.84	[1.83; 1.84]	9226	1.00
c	0.69	[0.44; 0.89]	1921	1.00
σ_β	0.27	[0.06; 0.76]	1637	1.00
ϕ_β	13.87	[0.60; 5656.51]	1468	1.01
σ_η	0.07	[0.00; 0.37]	1476	1.00
η_1	−7.16	[−7.63; −6.60]	2005	1.00
η_2	−7.14	[−9.02; −5.29]	2165	1.01
η_3	−7.13	[−9.77; −4.48]	2283	1.00
η_4	−7.15	[−10.26; −3.94]	2155	1.00
η_5	−7.21	[−10.87; −3.29]	2118	1.00
η_6	−7.21	[−11.25; −2.89]	2298	1.00

Pit Fall River Mills, Usa – GPLM0



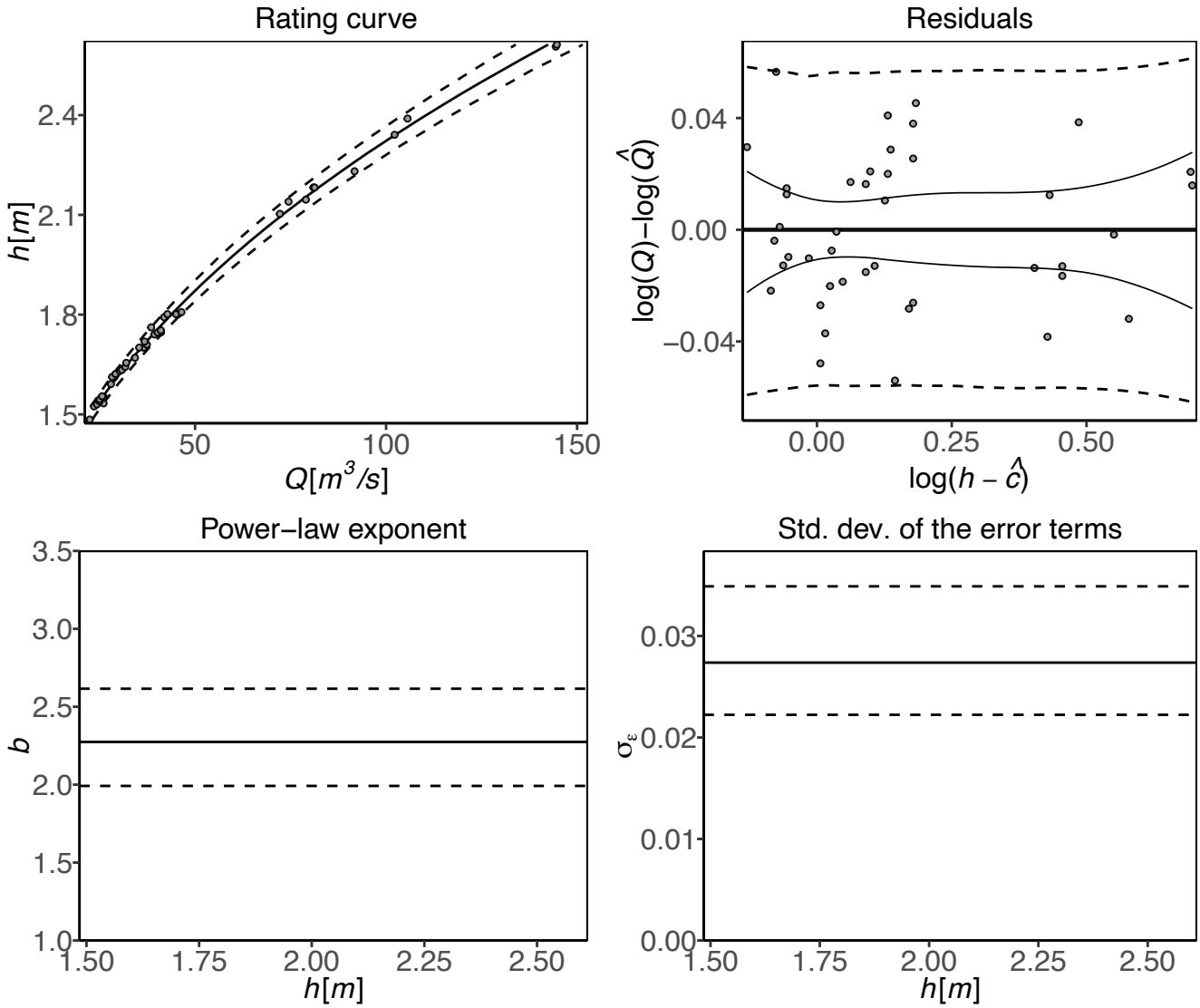
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	35.35	[19.97; 52.12]	3889	1.00
b	1.84	[1.83; 1.84]	10759	1.00
c	0.69	[0.45; 0.89]	3518	1.00
σ_ε	0.03	[0.02; 0.04]	4558	1.00
σ_β	0.52	[0.23; 0.87]	2599	1.00
ϕ_β	16.74	[0.67; 11998.33]	2370	1.00

Pit Fall River Mills, Usa – PLM



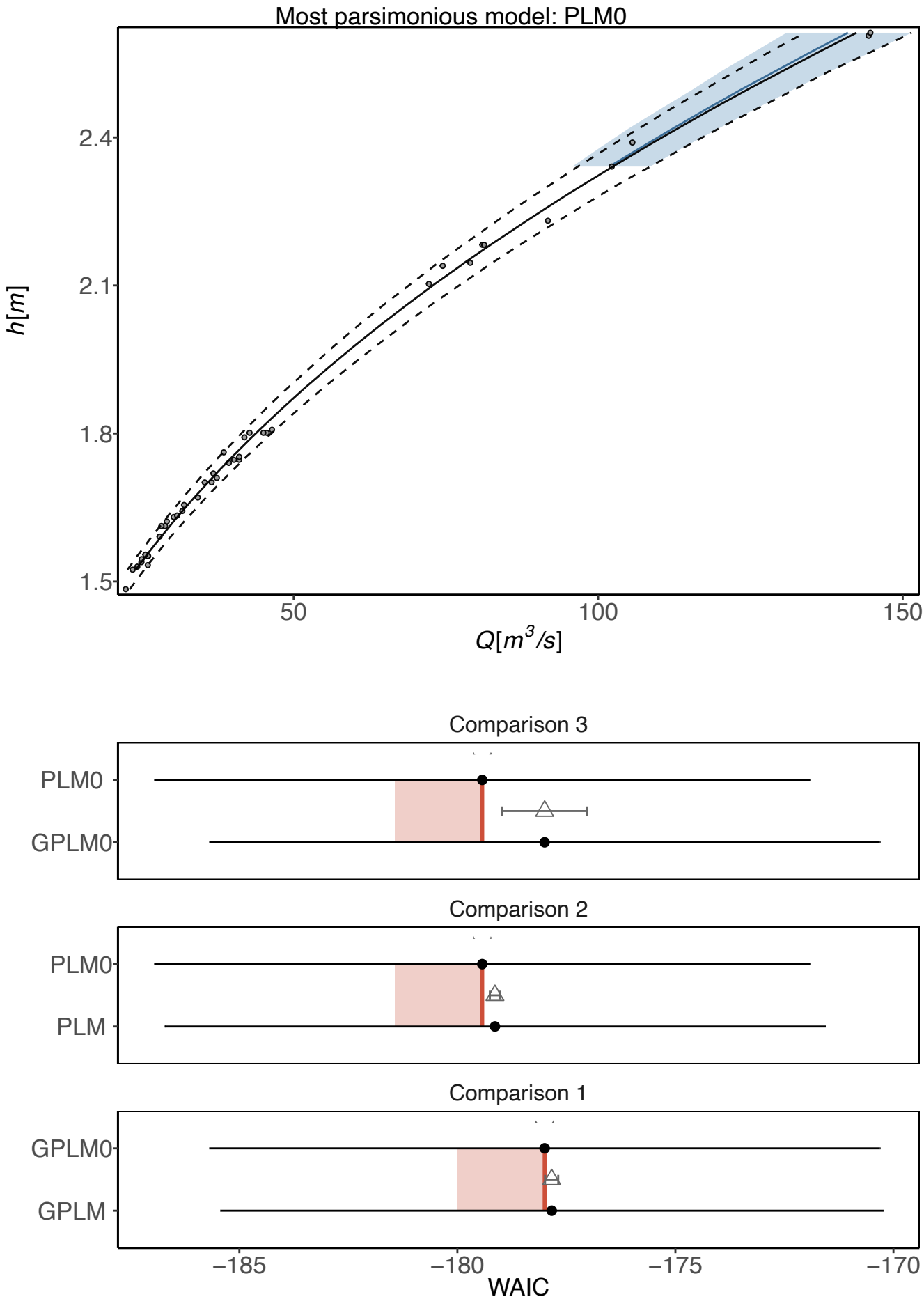
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	28.90	[18.19; 41.69]	2733	1.00
b	2.28	[1.98; 2.63]	2735	1.00
c	0.60	[0.41; 0.77]	2691	1.00
σ_η	0.07	[0.00; 0.38]	1736	1.00
η_1	–7.20	[–7.70; –6.66]	2575	1.00
η_2	–7.15	[–9.02; –5.30]	2659	1.00
η_3	–7.18	[–9.76; –4.56]	2716	1.00
η_4	–7.21	[–10.39; –3.98]	2826	1.00
η_5	–7.25	[–10.84; –3.45]	2865	1.00
η_6	–7.27	[–11.36; –2.98]	2959	1.00

Pit Fall River Mills, Usa – PLM0



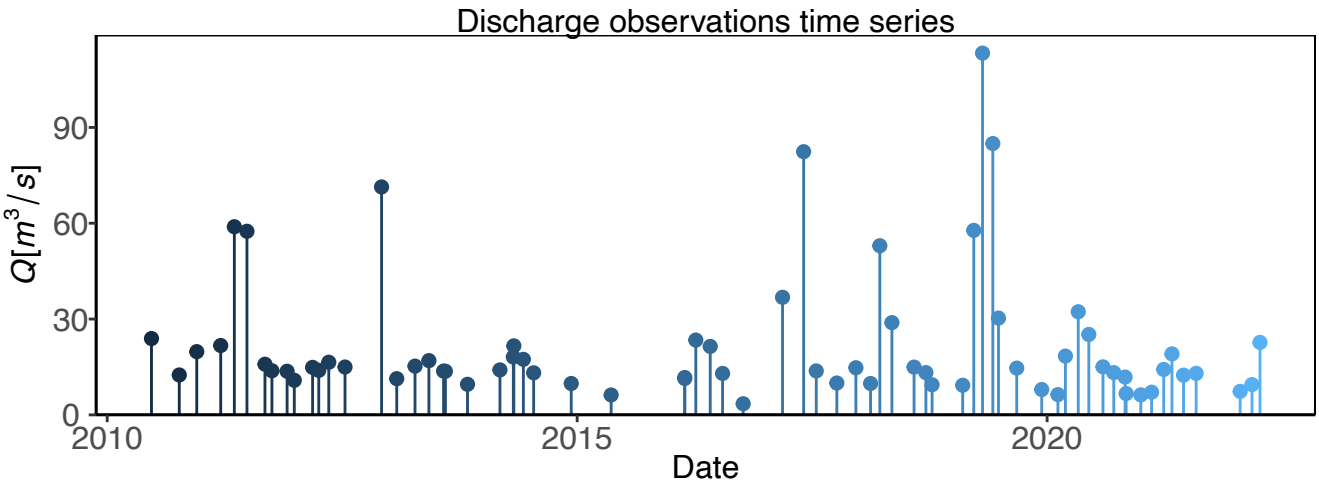
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	29.23	[18.42; 41.04]	9310	1.00
b	2.27	[1.99; 2.62]	9372	1.00
c	0.61	[0.41; 0.76]	9484	1.00
σ_ε	0.03	[0.02; 0.03]	9862	1.00

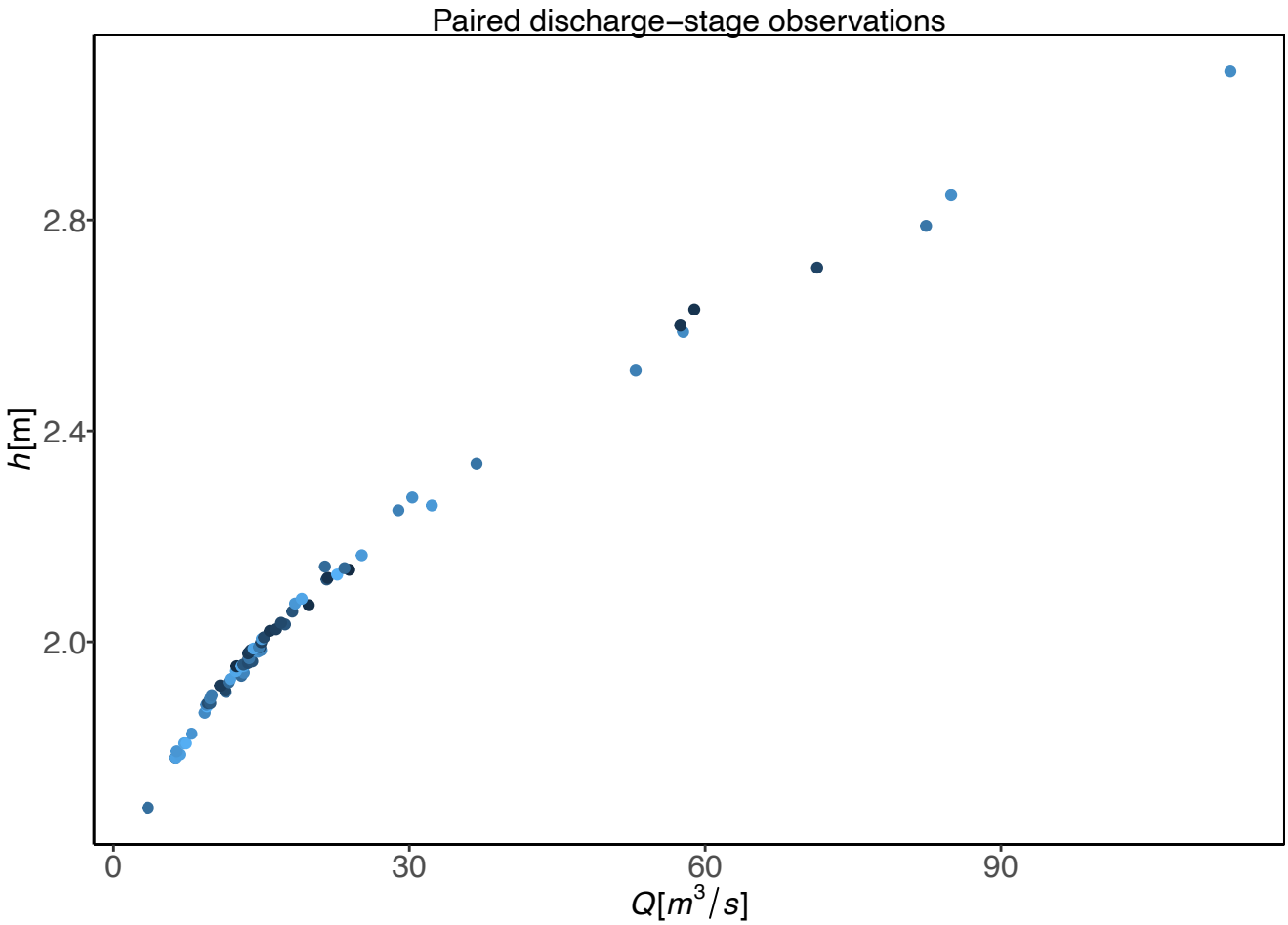
Power−law tournament results for Pit Fall River Mills, Usa



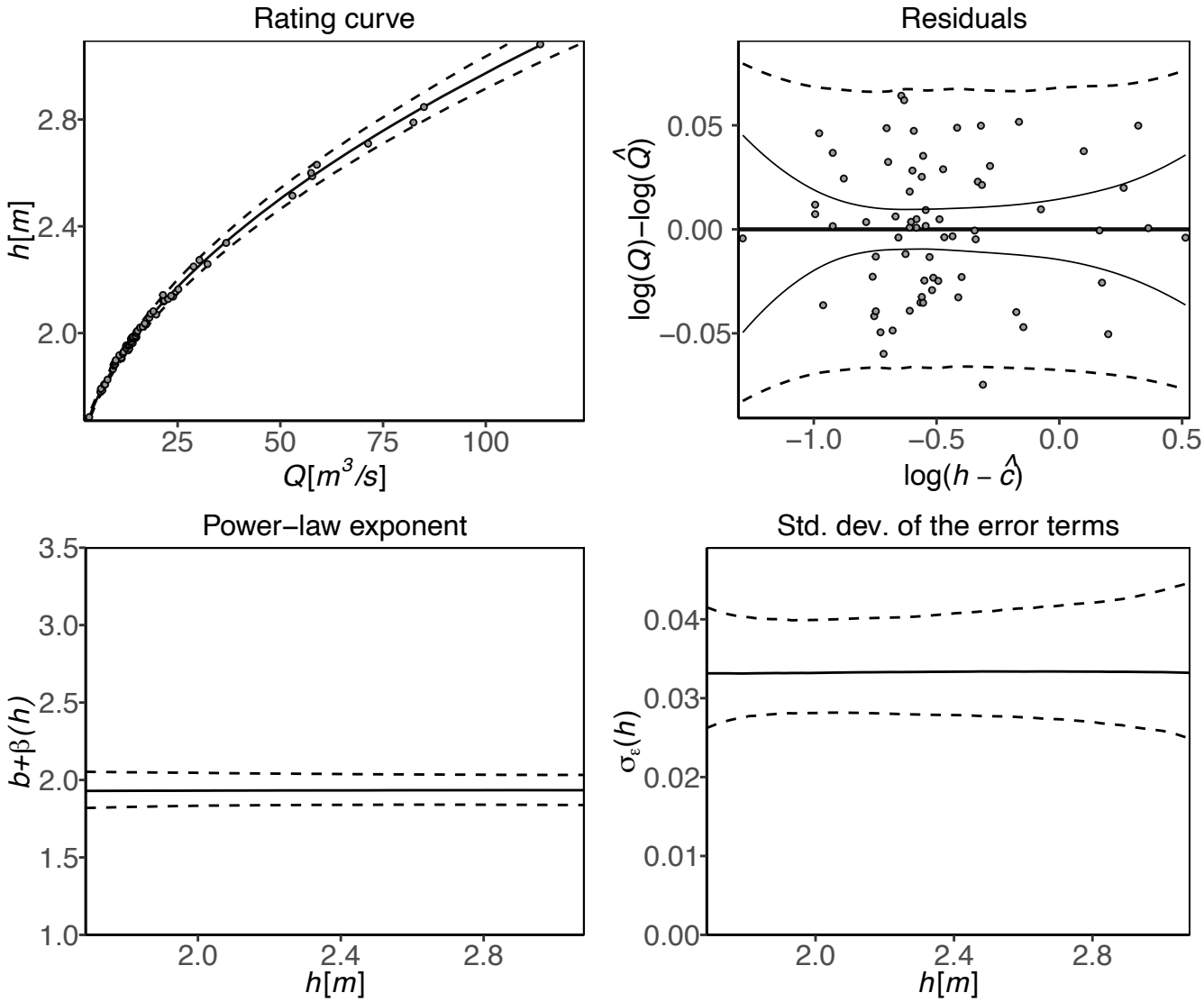
Station name:	Truckee
Location:	California, USA
Station number:	10344505
Number of observations:	69
Start date:	2010–06–22
End date:	2022–04–07
Max. discharge (m^3/s):	113.3
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.73	0.20
GPLM0	0.45	0.23
PLM	0.12	0.27
PLM0	0.00	0.29



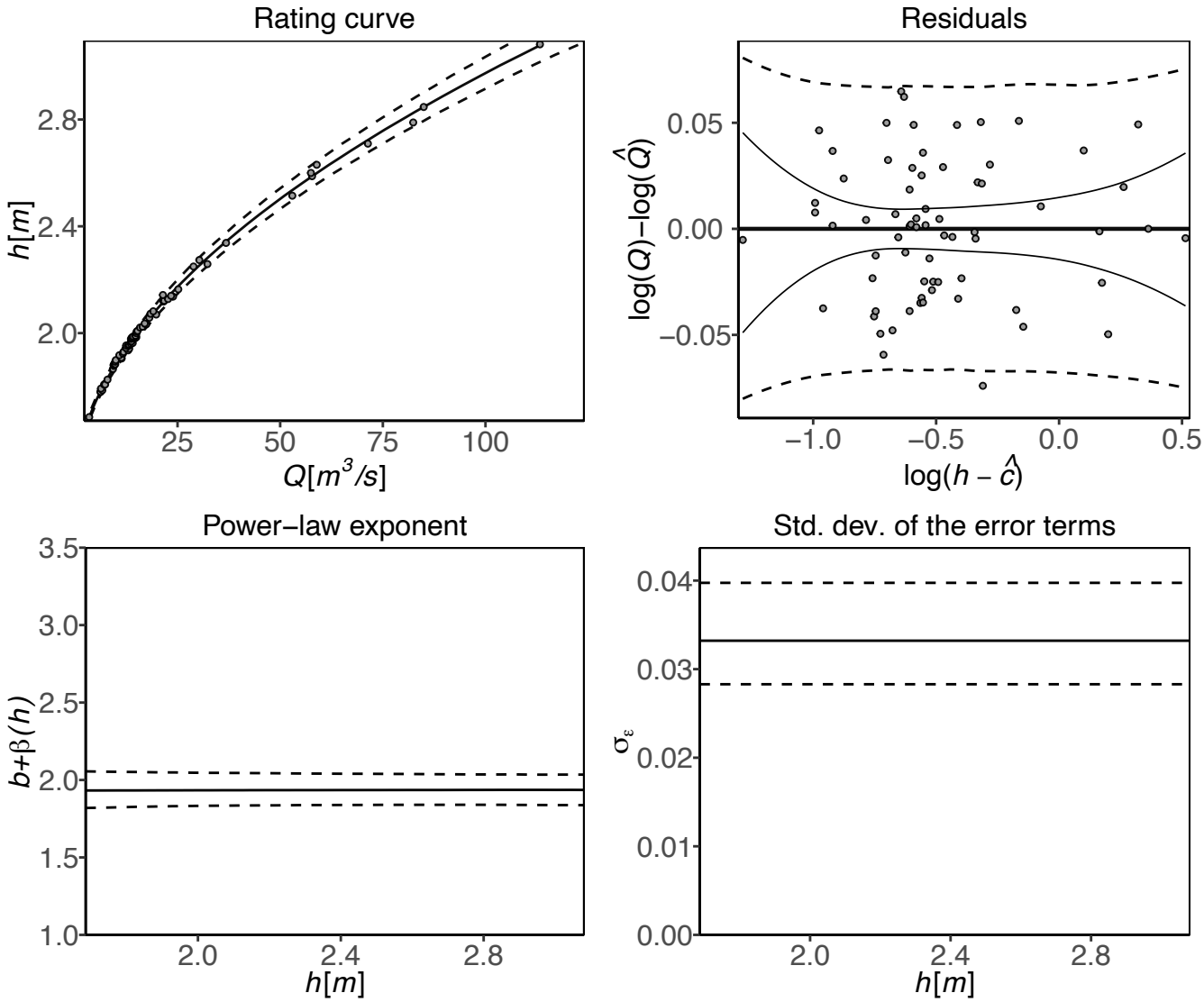


Truckee, Usa – GPLM



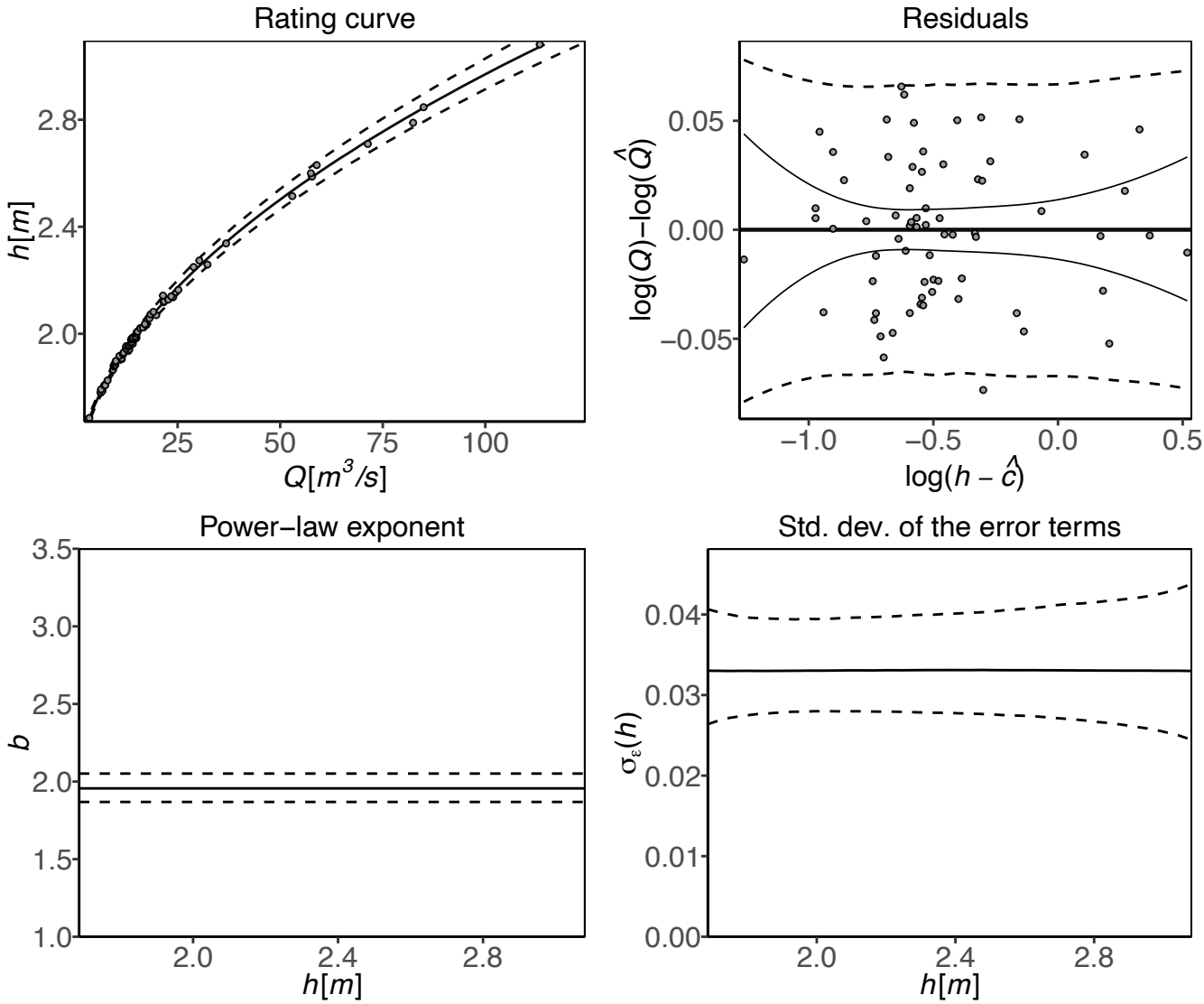
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	42.12	[39.08; 44.94]	1639	1.00
b	1.84	[1.83; 1.84]	8980	1.00
c	1.41	[1.37; 1.44]	1563	1.00
σ_β	0.13	[0.02; 0.50]	1738	1.00
ϕ_β	20.46	[1.07; 17175.81]	1243	1.01
σ_η	0.07	[0.00; 0.38]	1282	1.01
η_1	−6.81	[−7.28; −6.36]	1732	1.00
η_2	−6.80	[−8.66; −4.96]	2115	1.00
η_3	−6.74	[−9.32; −4.22]	2177	1.00
η_4	−6.68	[−9.88; −3.59]	2308	1.00
η_5	−6.73	[−10.44; −3.00]	2386	1.00
η_6	−6.81	[−11.09; −2.55]	2332	1.00

Truckee, Usa – GPLM0



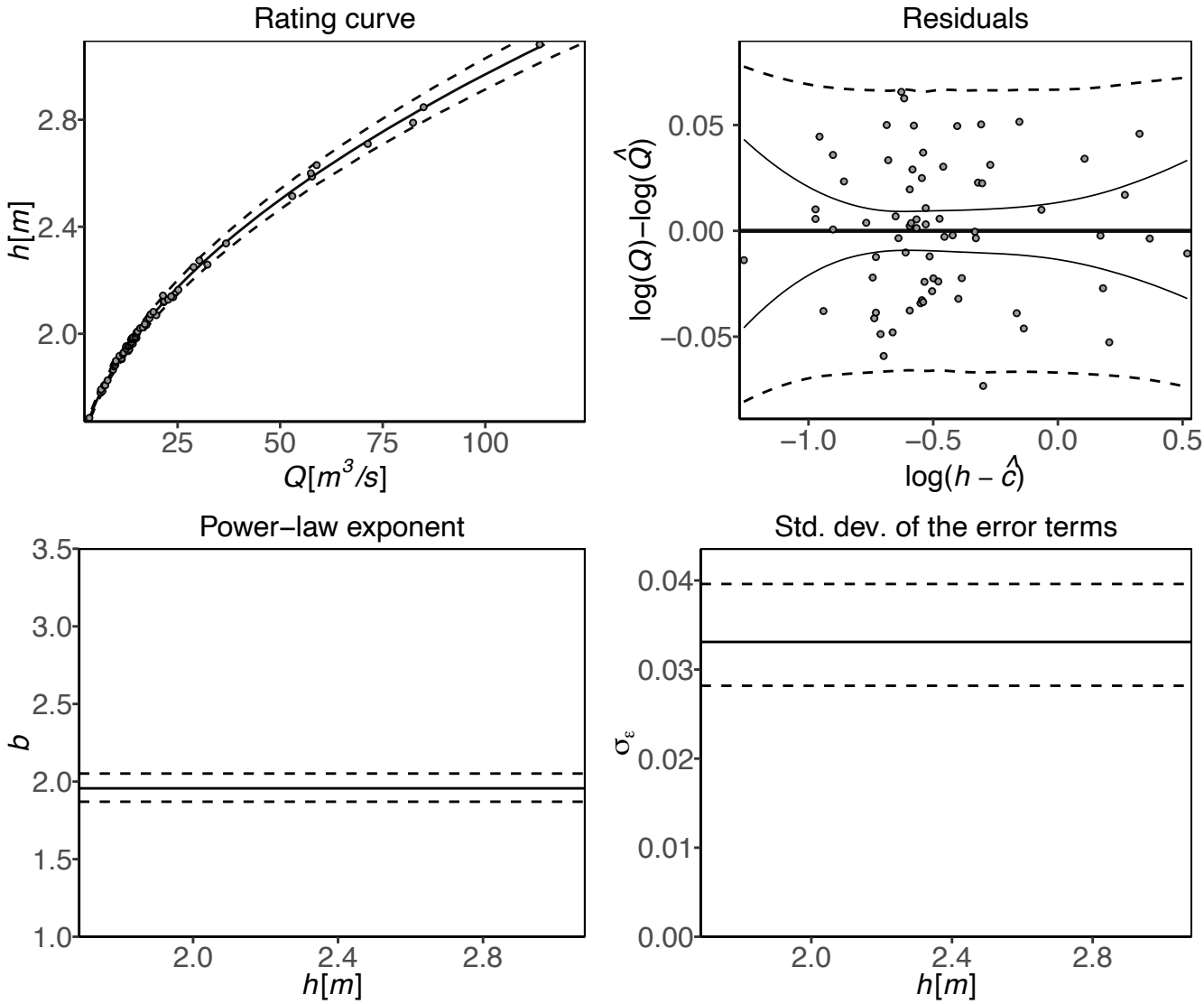
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	42.05	[38.98; 44.94]	3518	1.00
b	1.84	[1.83; 1.84]	12666	1.00
c	1.41	[1.37; 1.44]	3418	1.00
σ_ε	0.03	[0.03; 0.04]	4726	1.00
σ_β	0.36	[0.15; 0.72]	4148	1.00
ϕ_β	24.97	[1.09; 14953.69]	2455	1.00

Truckee, Usa – PLM



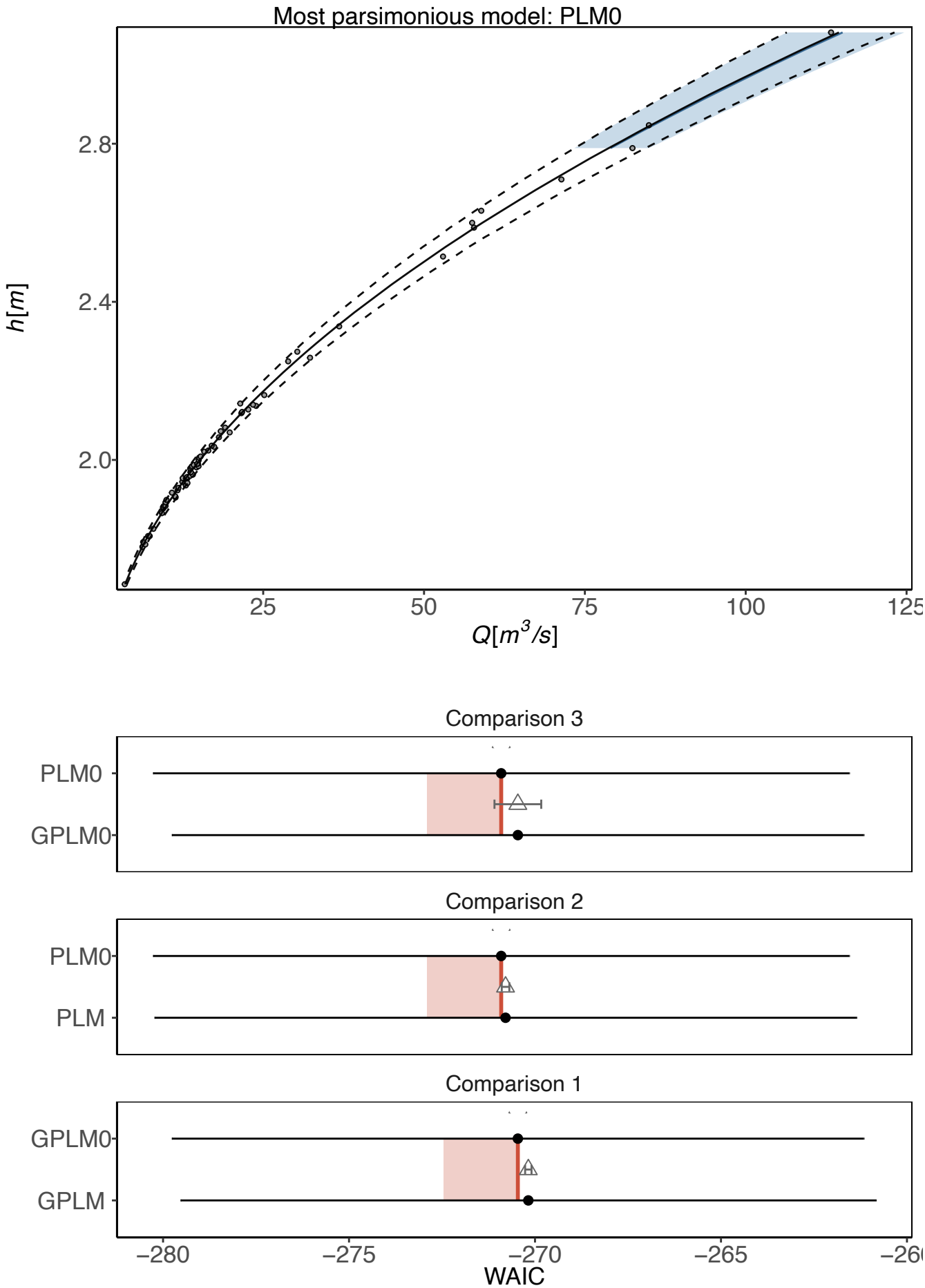
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	41.49	[38.83; 43.86]	2784	1.00
b	1.96	[1.87; 2.05]	2827	1.00
c	1.40	[1.37; 1.43]	2661	1.00
σ_η	0.07	[0.00; 0.37]	1591	1.00
η_1	–6.82	[–7.27; –6.41]	2250	1.00
η_2	–6.81	[–8.63; –5.02]	2721	1.00
η_3	–6.77	[–9.34; –4.27]	2686	1.00
η_4	–6.77	[–9.85; –3.63]	2698	1.00
η_5	–6.78	[–10.41; –3.21]	2667	1.00
η_6	–6.82	[–11.00; –2.72]	2857	1.00

Truckee, Usa – PLM0



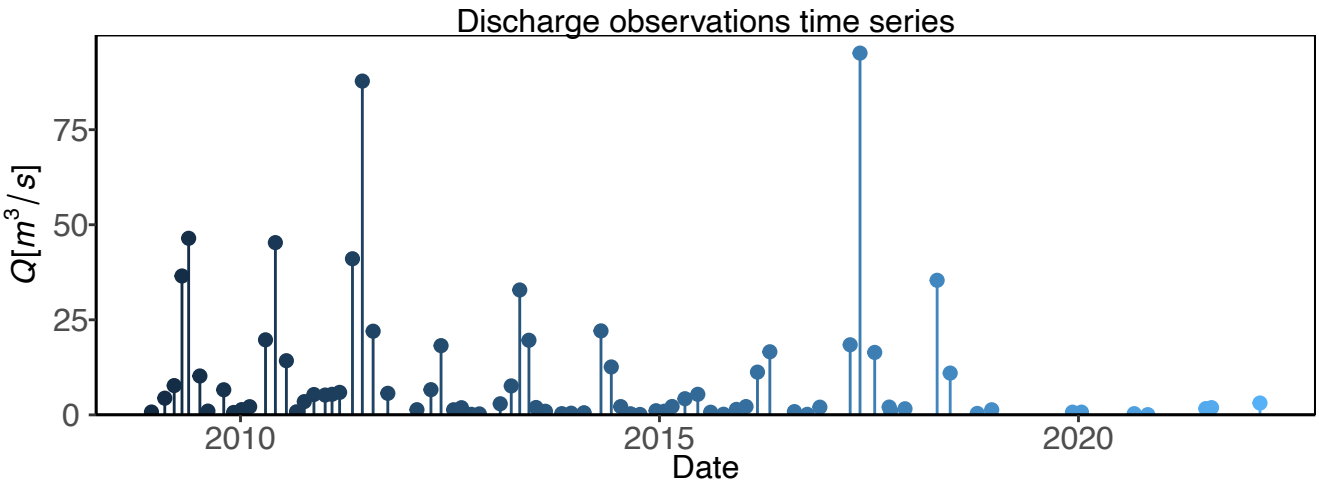
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	41.47	[38.85; 43.85]	10385	1.00
b	1.96	[1.87; 2.05]	10302	1.00
c	1.40	[1.37; 1.43]	10011	1.00
σ_ε	0.03	[0.03; 0.04]	9418	1.00

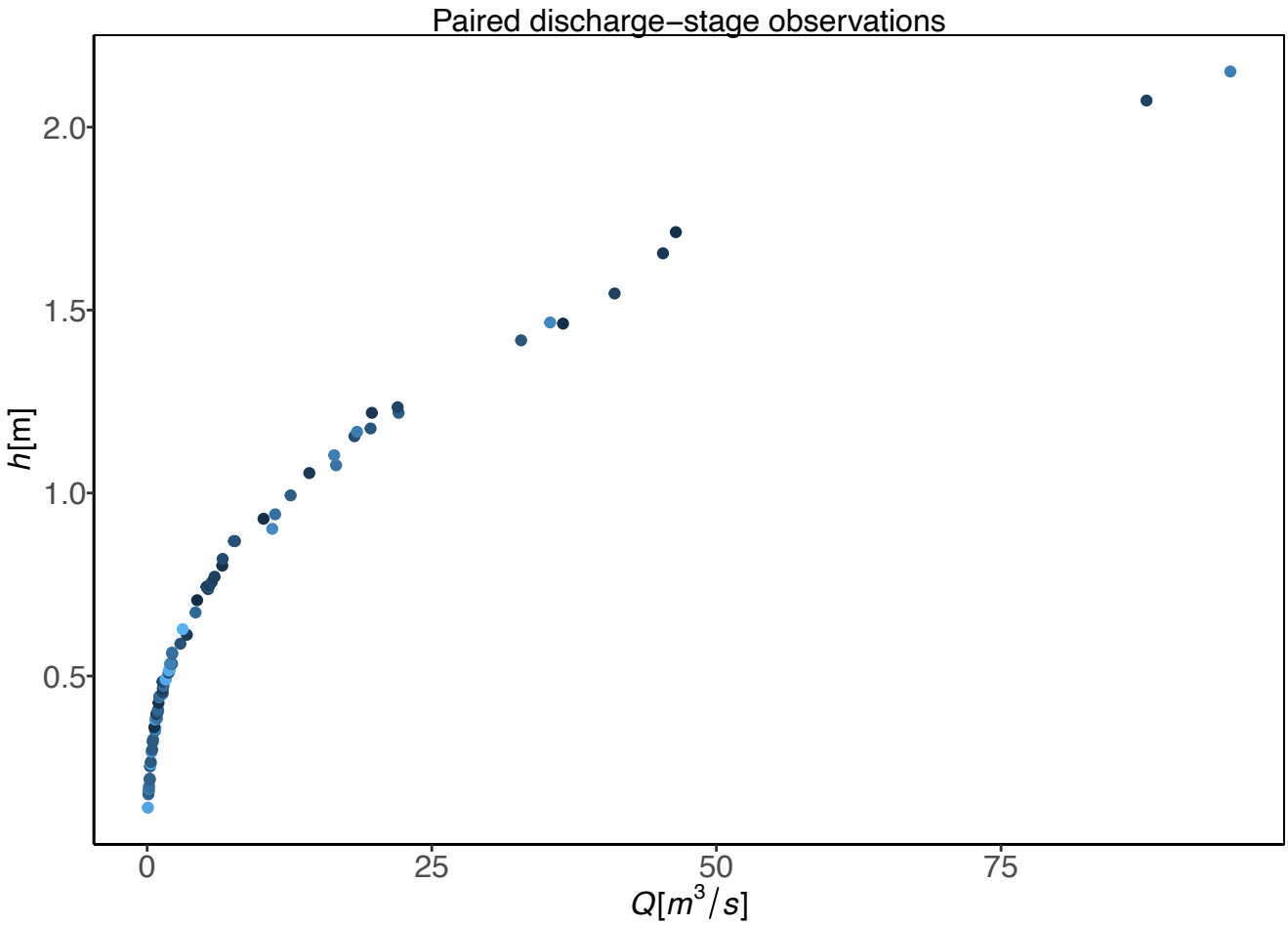
Power−law tournament results for Truckee, Usa



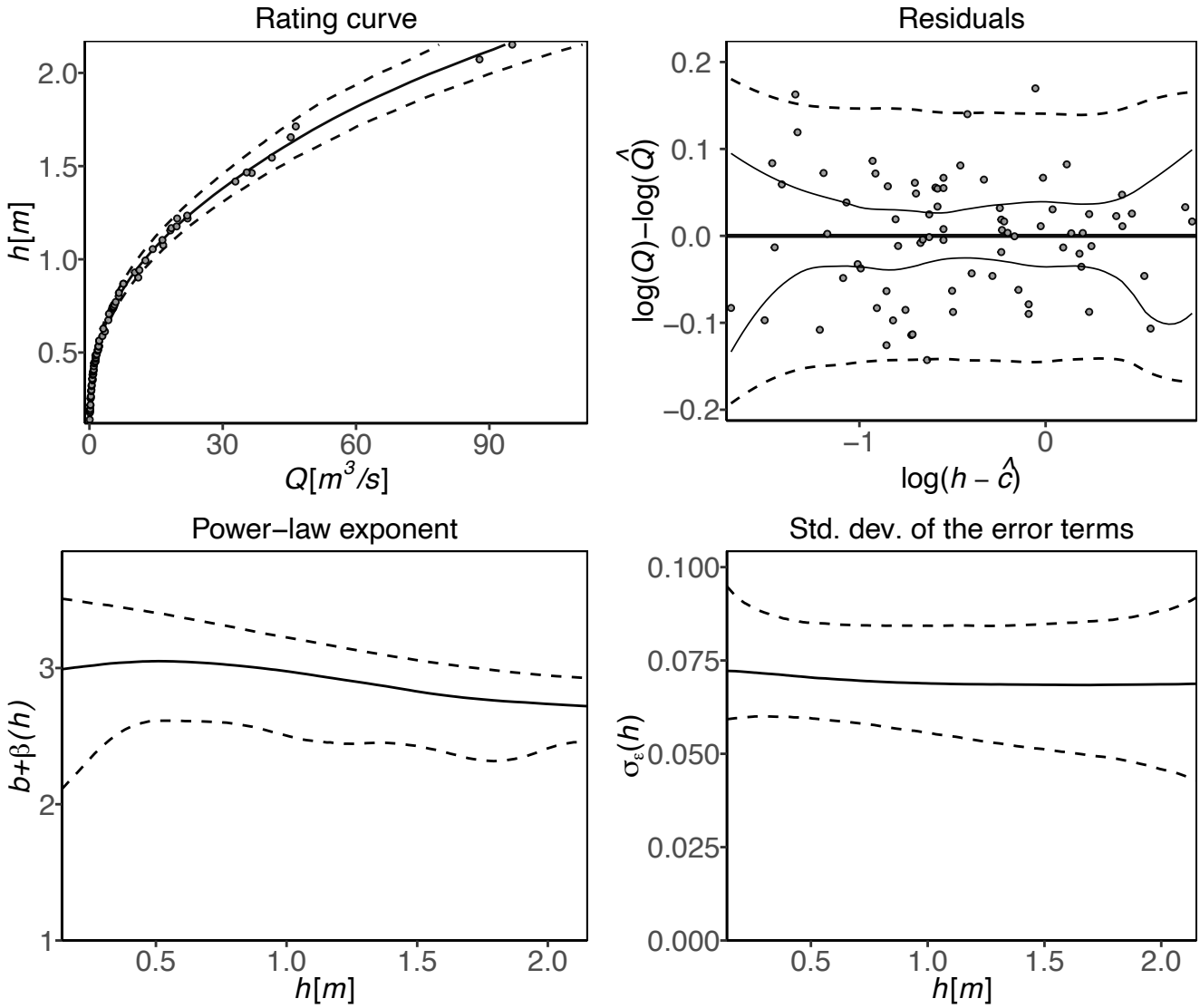
Station name:	Merced
Location:	California, USA
Station number:	11264500
Number of observations:	78
Start date:	2008–12–09
End date:	2022–03–02
Max. discharge (m^3/s):	95.1
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.51
GPLM0	0.12	0.49
PLM	16.51	0.00
PLM0	16.42	0.00



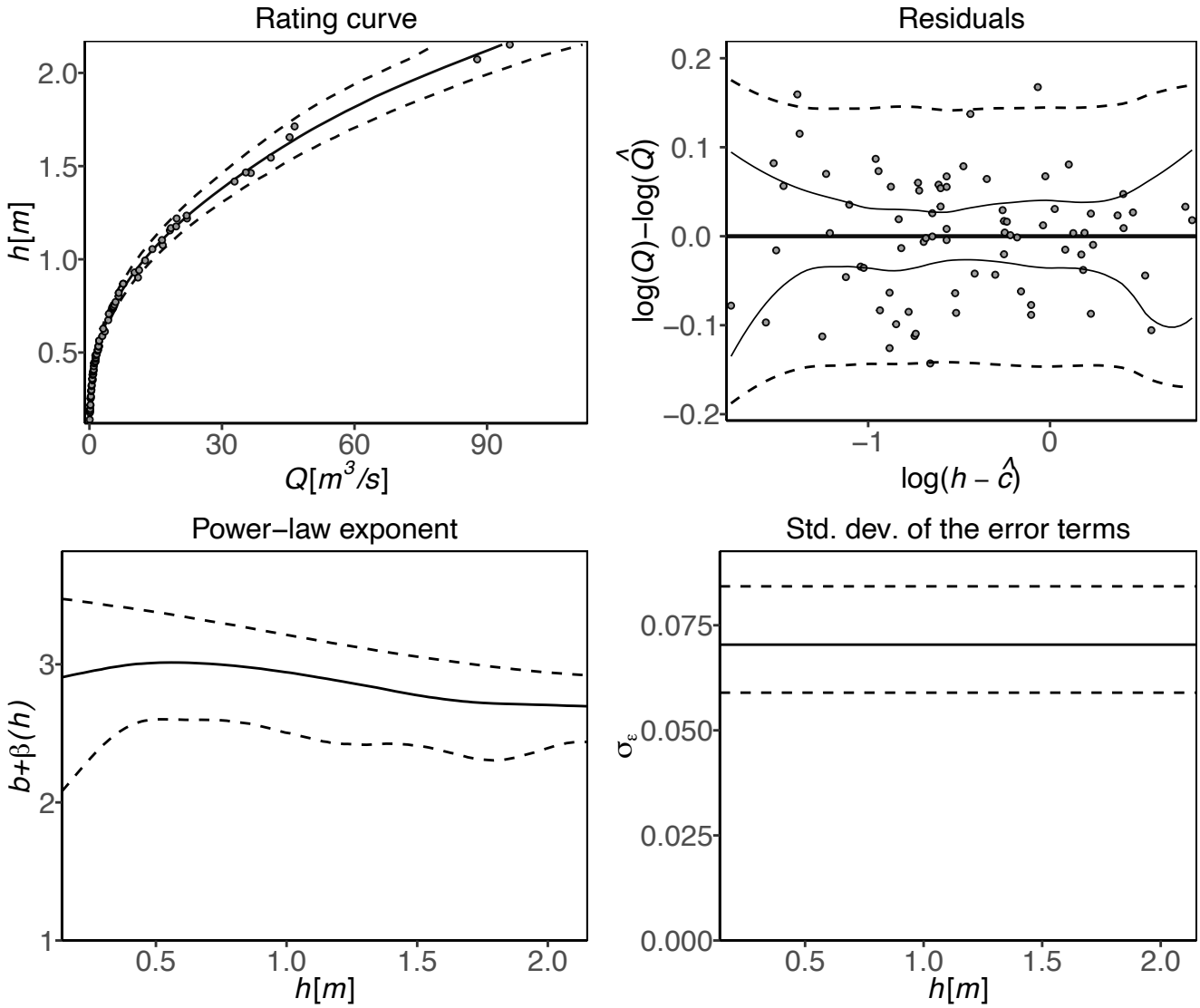


Merced, Usa – GPLM



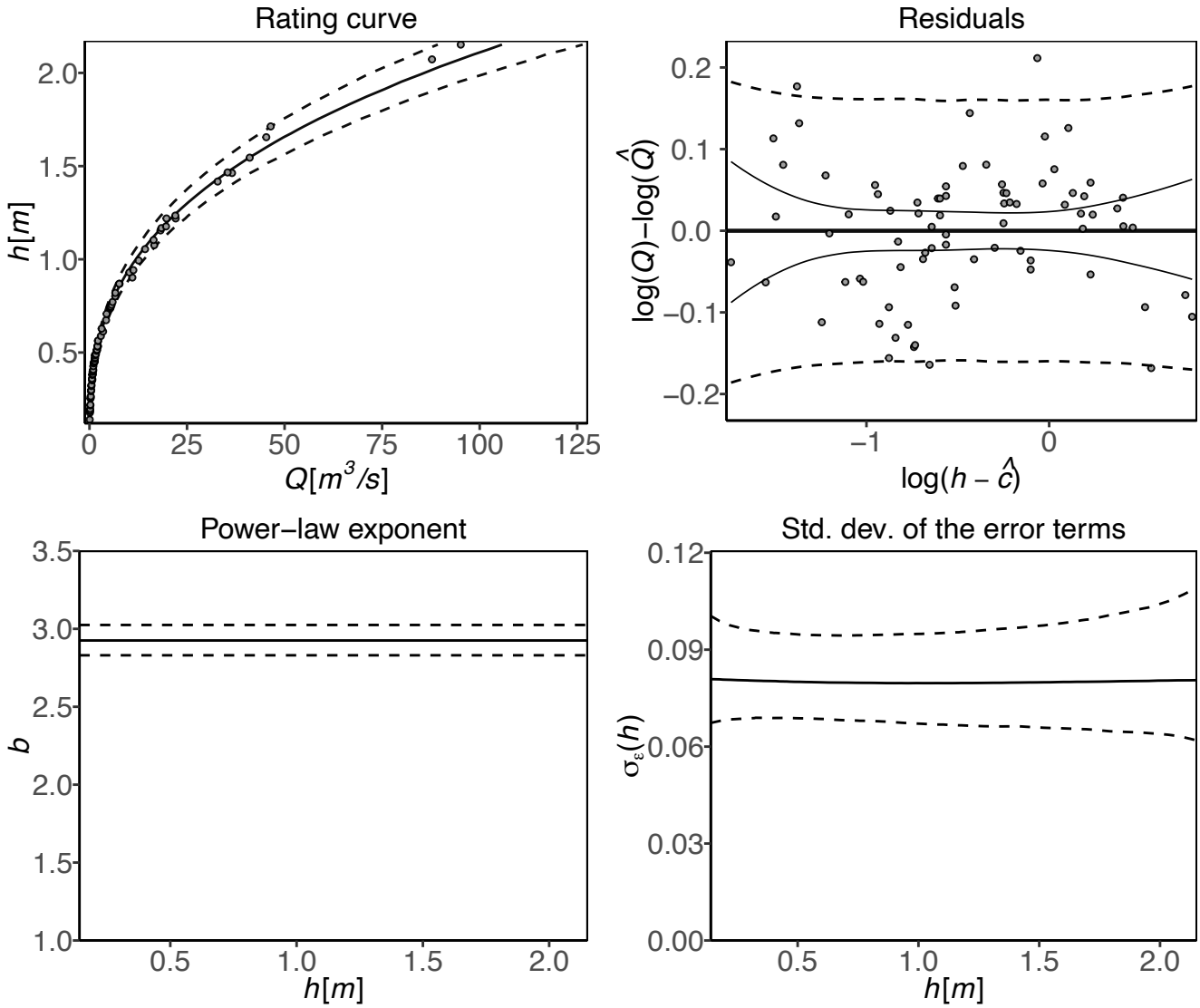
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.85	[8.69; 15.04]	830	1.06
b	1.84	[1.83; 1.84]	9501	1.00
c	–0.04	[–0.12; 0.07]	791	1.06
σ_β	0.65	[0.37; 1.24]	2075	1.00
ϕ_β	1.95	[0.52; 11.50]	990	1.04
σ_η	0.09	[0.00; 0.46]	1313	1.01
η_1	–5.26	[–5.65; –4.71]	1886	1.01
η_2	–5.49	[–7.24; –3.61]	1945	1.00
η_3	–5.82	[–8.31; –3.15]	2074	1.00
η_4	–6.04	[–9.02; –2.74]	2068	1.00
η_5	–6.01	[–9.51; –2.20]	2091	1.00
η_6	–6.03	[–10.07; –1.77]	2010	1.00

Merced, Usa – GPLM0



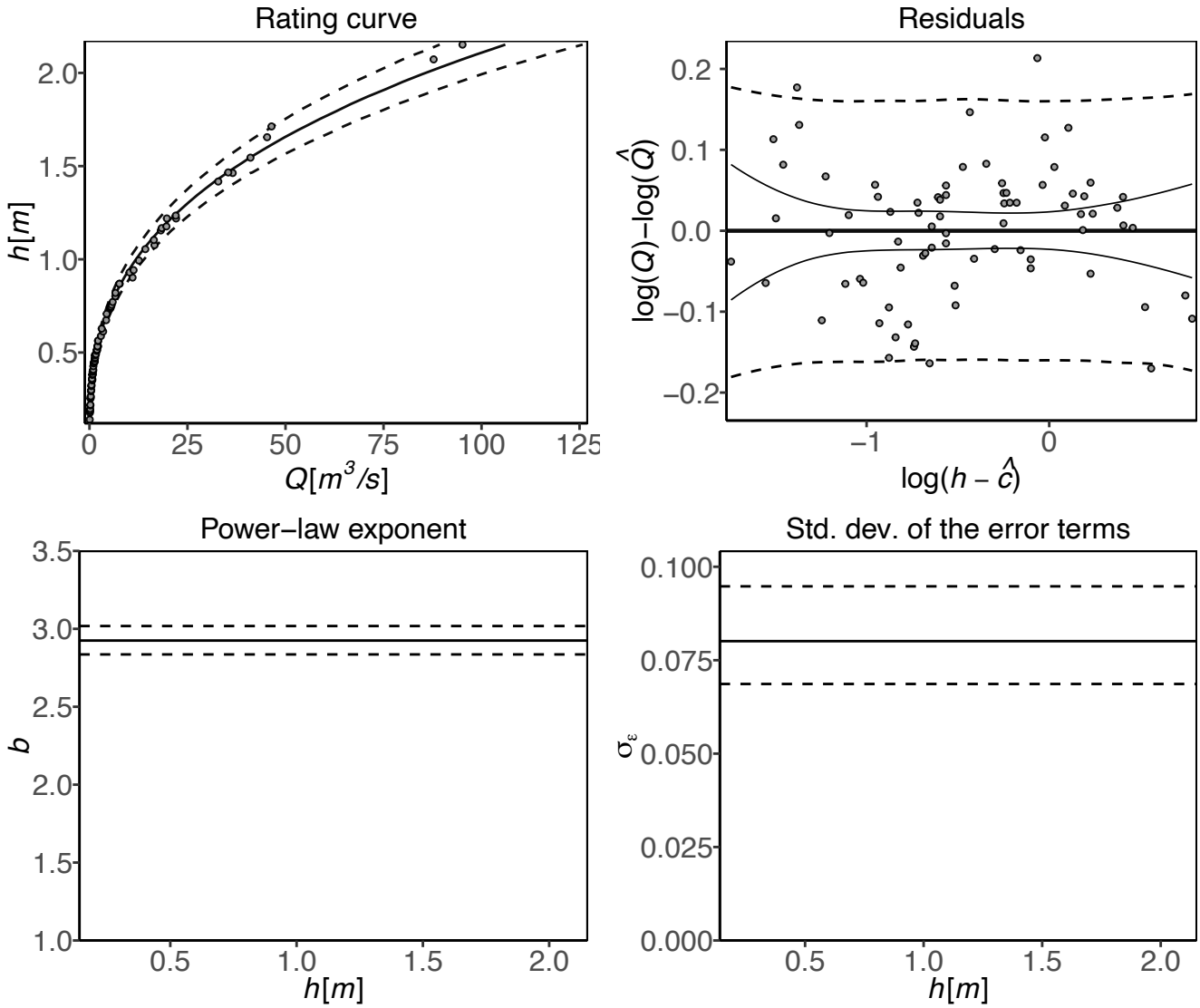
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	11.32	[8.81; 15.24]	1030	1.02
b	1.84	[1.83; 1.84]	10761	1.00
c	–0.03	[–0.11; 0.07]	951	1.02
σ_ε	0.07	[0.06; 0.08]	2854	1.00
σ_β	0.79	[0.60; 1.09]	4366	1.00
ϕ_β	1.69	[0.52; 10.38]	1390	1.01

Merced, Usa – PLM



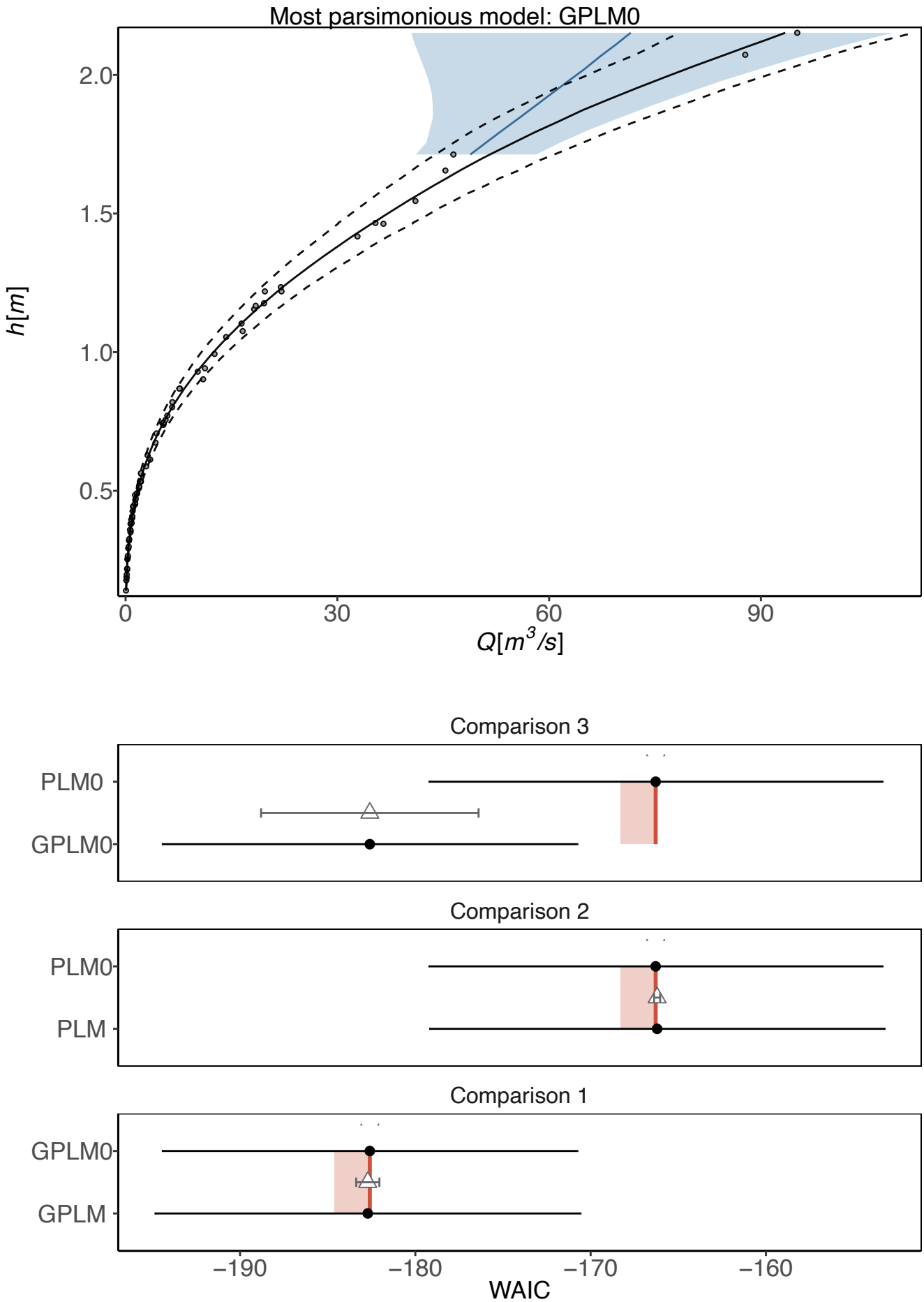
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.73	[10.10; 11.34]	2959	1.00
b	2.93	[2.83; 3.02]	2616	1.00
c	–0.04	[–0.05; –0.02]	2483	1.00
σ_η	0.08	[0.00; 0.40]	1917	1.00
η_1	–5.03	[–5.40; –4.60]	2144	1.00
η_2	–5.12	[–6.94; –3.27]	2717	1.00
η_3	–5.25	[–7.74; –2.64]	2674	1.00
η_4	–5.18	[–8.37; –2.02]	2655	1.00
η_5	–5.07	[–8.68; –1.41]	2721	1.00
η_6	–4.99	[–9.22; –0.90]	2664	1.00

Merced, Usa – PLM0



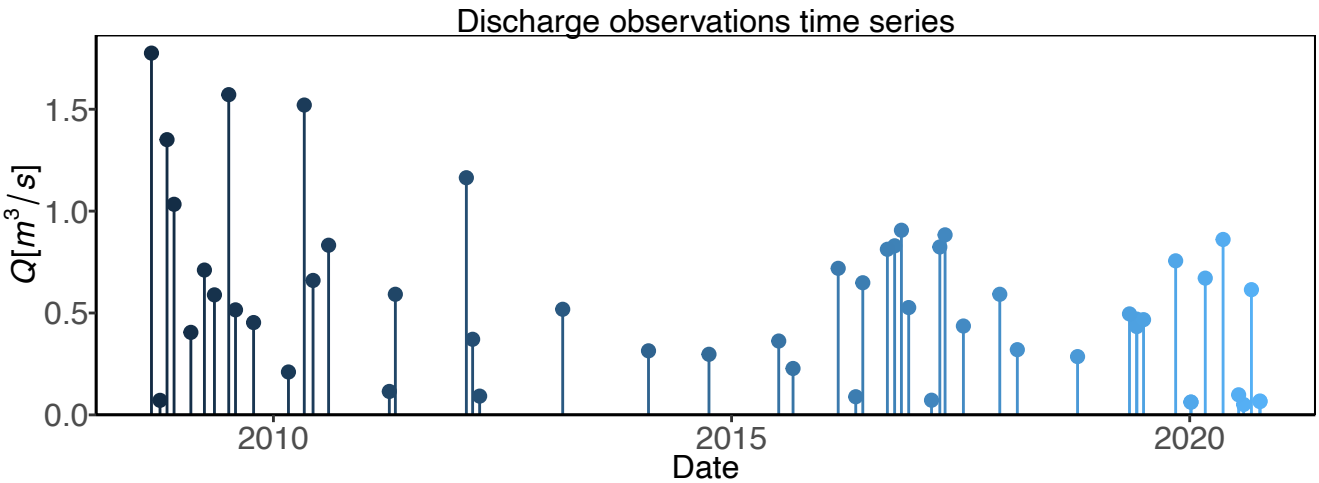
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.74	[10.13; 11.32]	10219	1.00
b	2.92	[2.84; 3.02]	9983	1.00
c	–0.03	[–0.05; –0.02]	9592	1.00
σ_ε	0.08	[0.07; 0.09]	8874	1.00

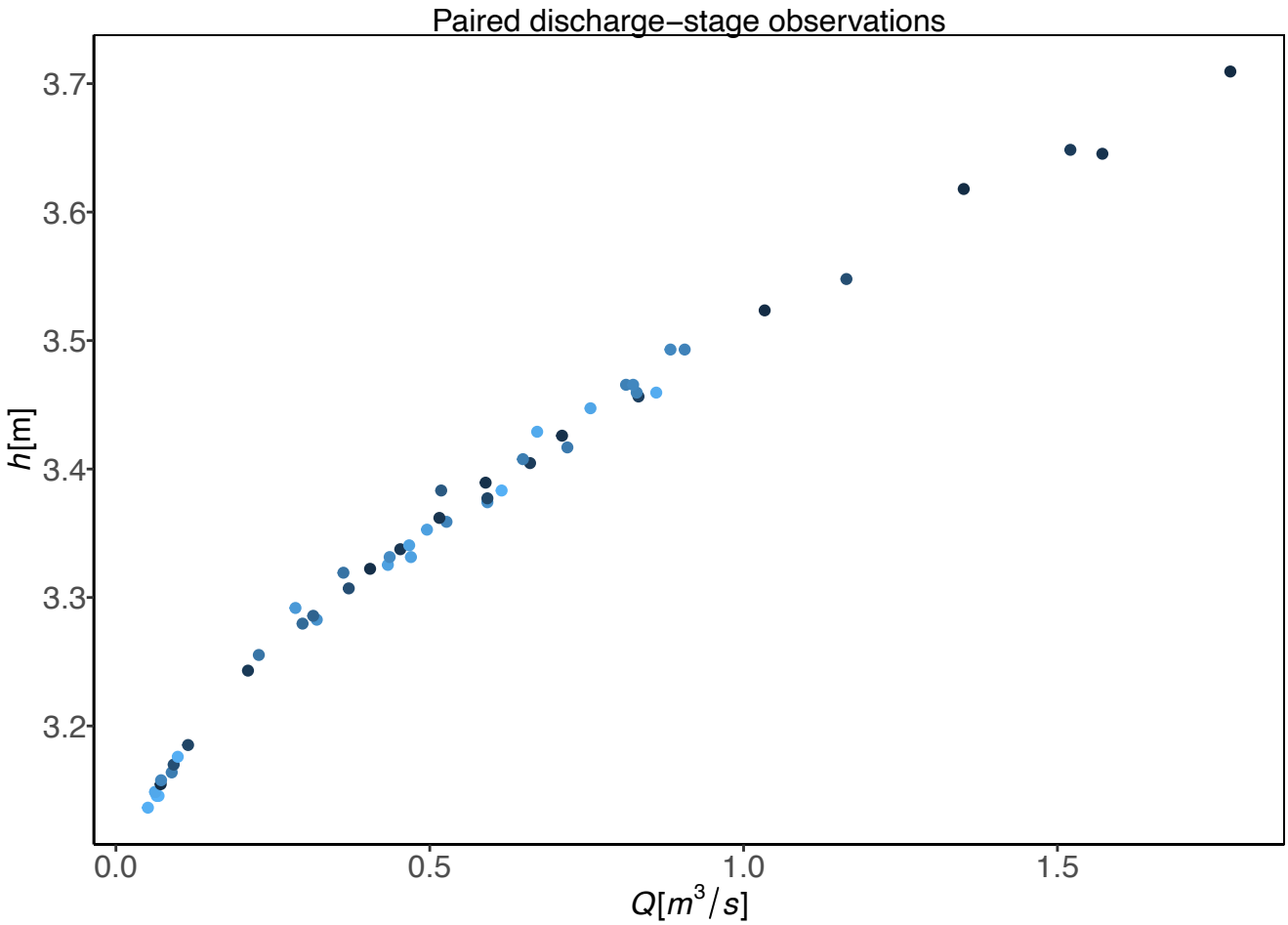
Power−law tournament results for Merced, Usa



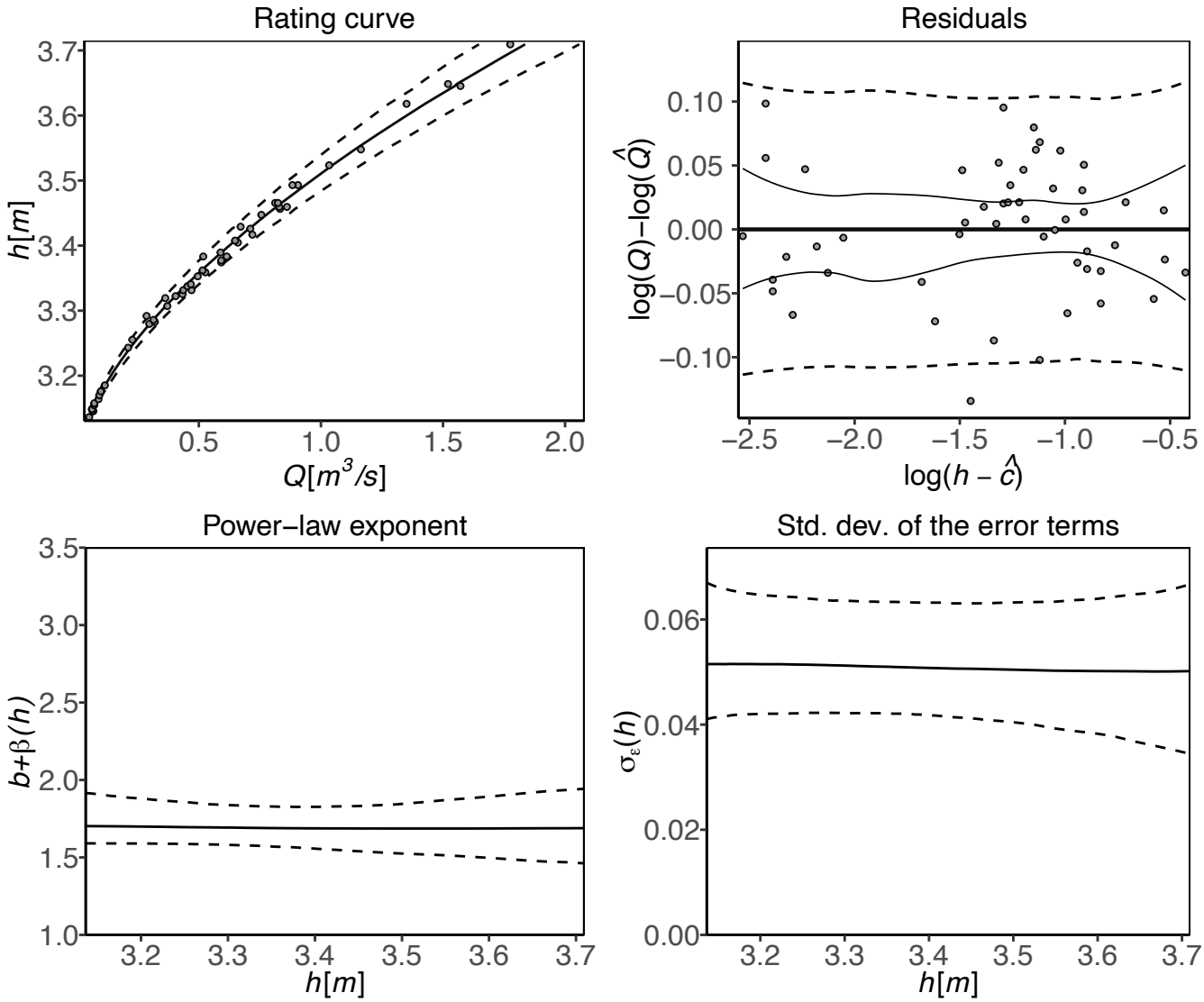
Station name:	Palo Verde
Location:	California, USA
Station number:	09429155
Number of observations:	52
Start date:	2008–09–02
End date:	2020–10–07
Max. discharge (m^3/s):	1.8
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.00	0.27
GPLM0	0.33	0.23
PLM	0.20	0.25
PLM0	0.20	0.25



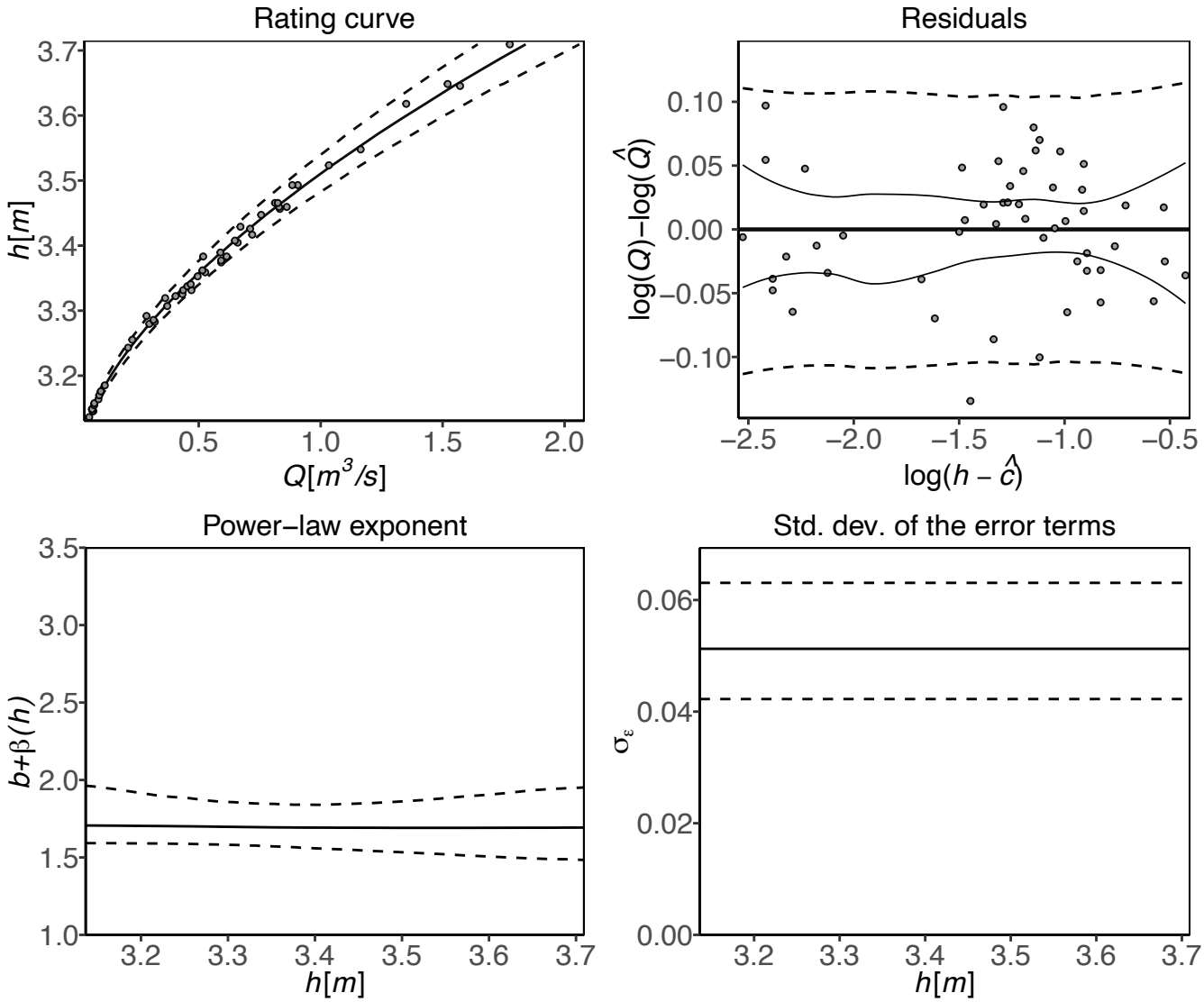


Palo Verde, Usa – GPLM



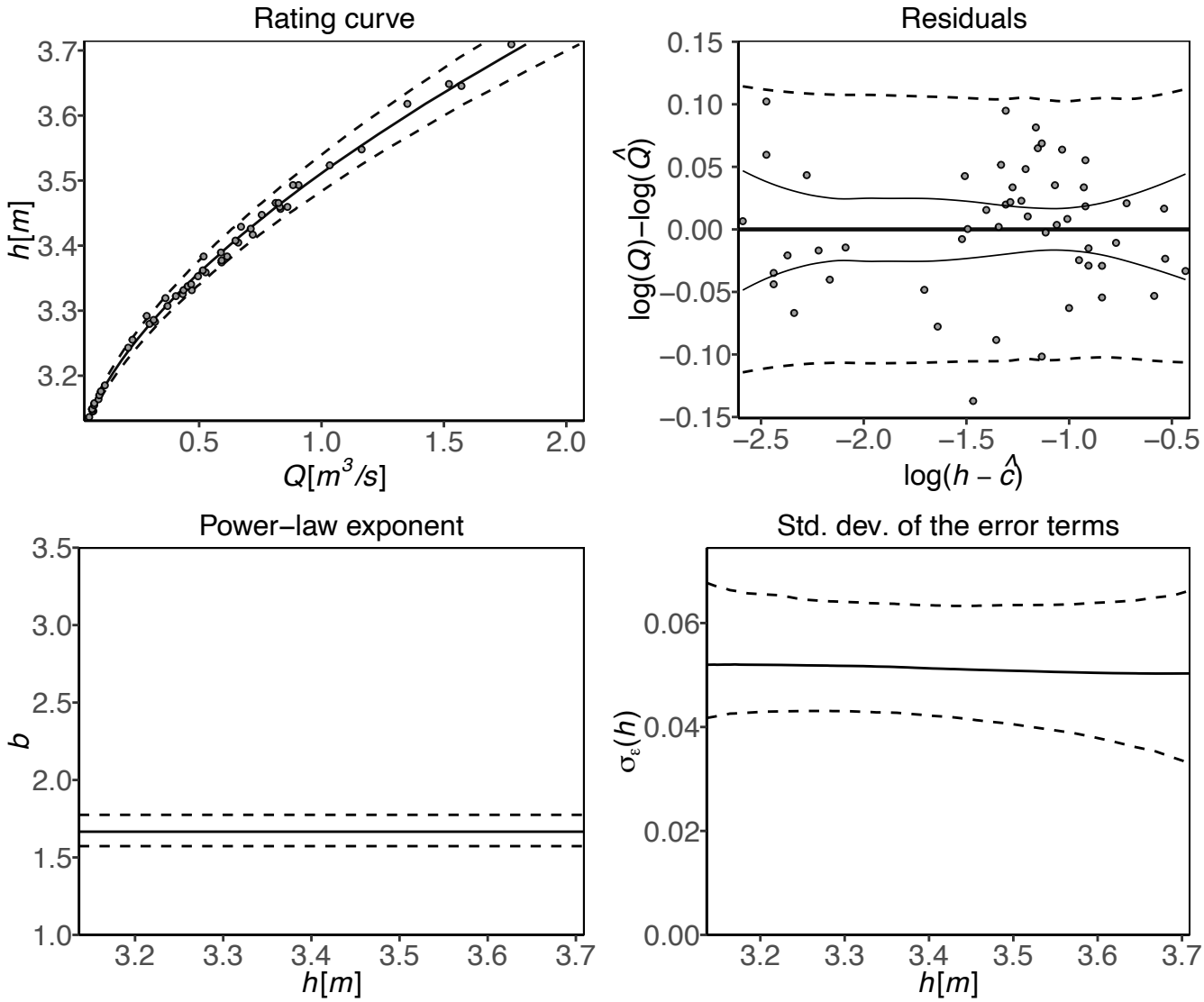
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.80	[3.21; 4.13]	2522	1.00
b	1.83	[1.83; 1.84]	7901	1.00
c	3.06	[3.03; 3.07]	1005	1.01
σ_β	0.18	[0.04; 0.60]	1777	1.00
ϕ_β	8.21	[0.31; 13285.54]	1154	1.00
σ_η	0.08	[0.00; 0.40]	1455	1.00
η_1	–5.93	[–6.39; –5.41]	1843	1.00
η_2	–5.94	[–7.77; –4.18]	2022	1.00
η_3	–6.05	[–8.61; –3.57]	2003	1.00
η_4	–6.24	[–9.31; –3.05]	2168	1.00
η_5	–6.33	[–9.95; –2.55]	2013	1.00
η_6	–6.35	[–10.47; –2.11]	2035	1.00

Palo Verde, Usa – GPLM0



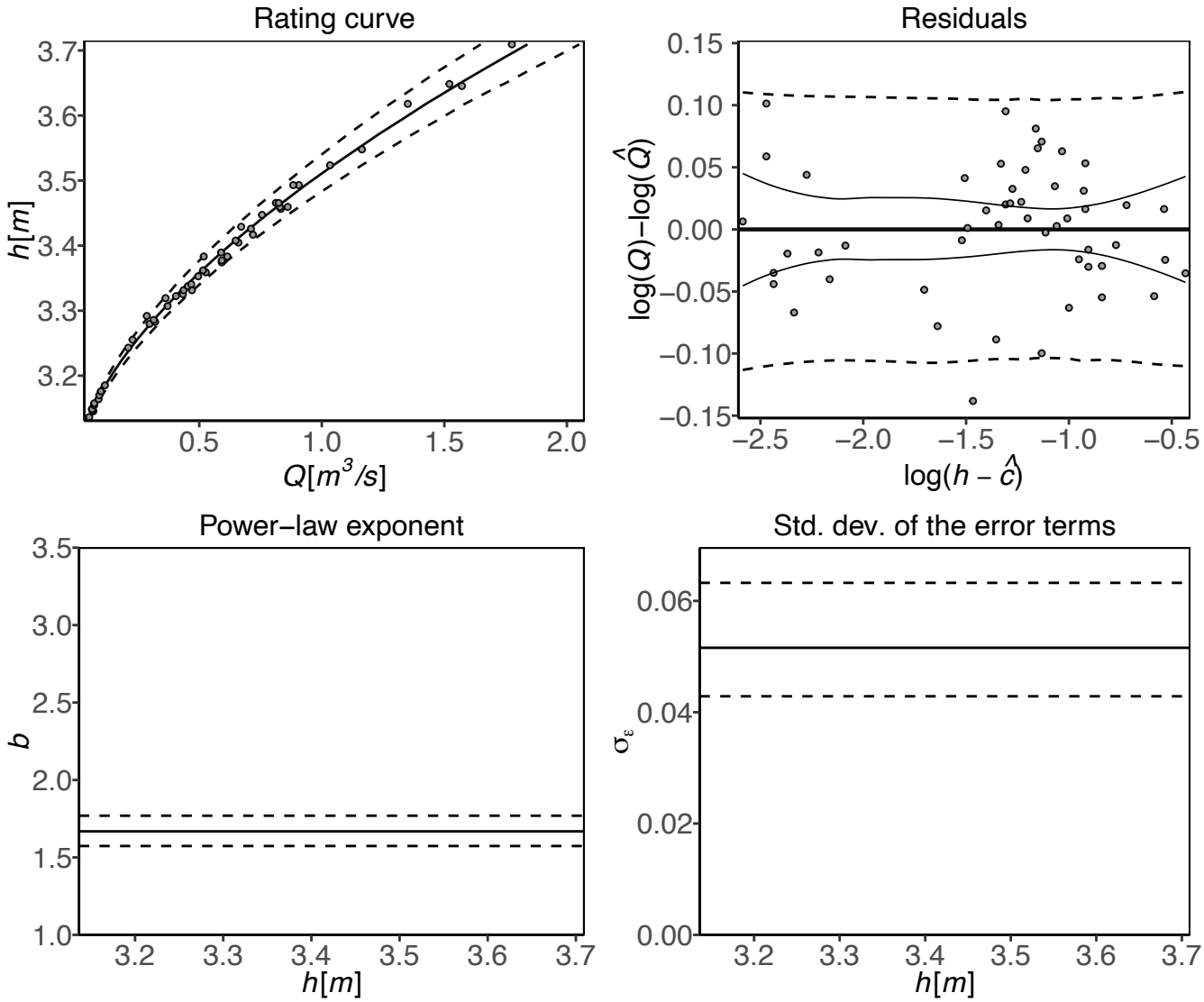
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.80	[3.20; 4.14]	2912	1.00
b	1.83	[1.83; 1.84]	8060	1.00
c	3.06	[3.02; 3.07]	1108	1.02
σ_ε	0.05	[0.04; 0.06]	3643	1.00
σ_β	0.42	[0.20; 0.80]	2647	1.00
ϕ_β	7.57	[0.31; 4995.66]	2265	1.00

Palo Verde, Usa – PLM



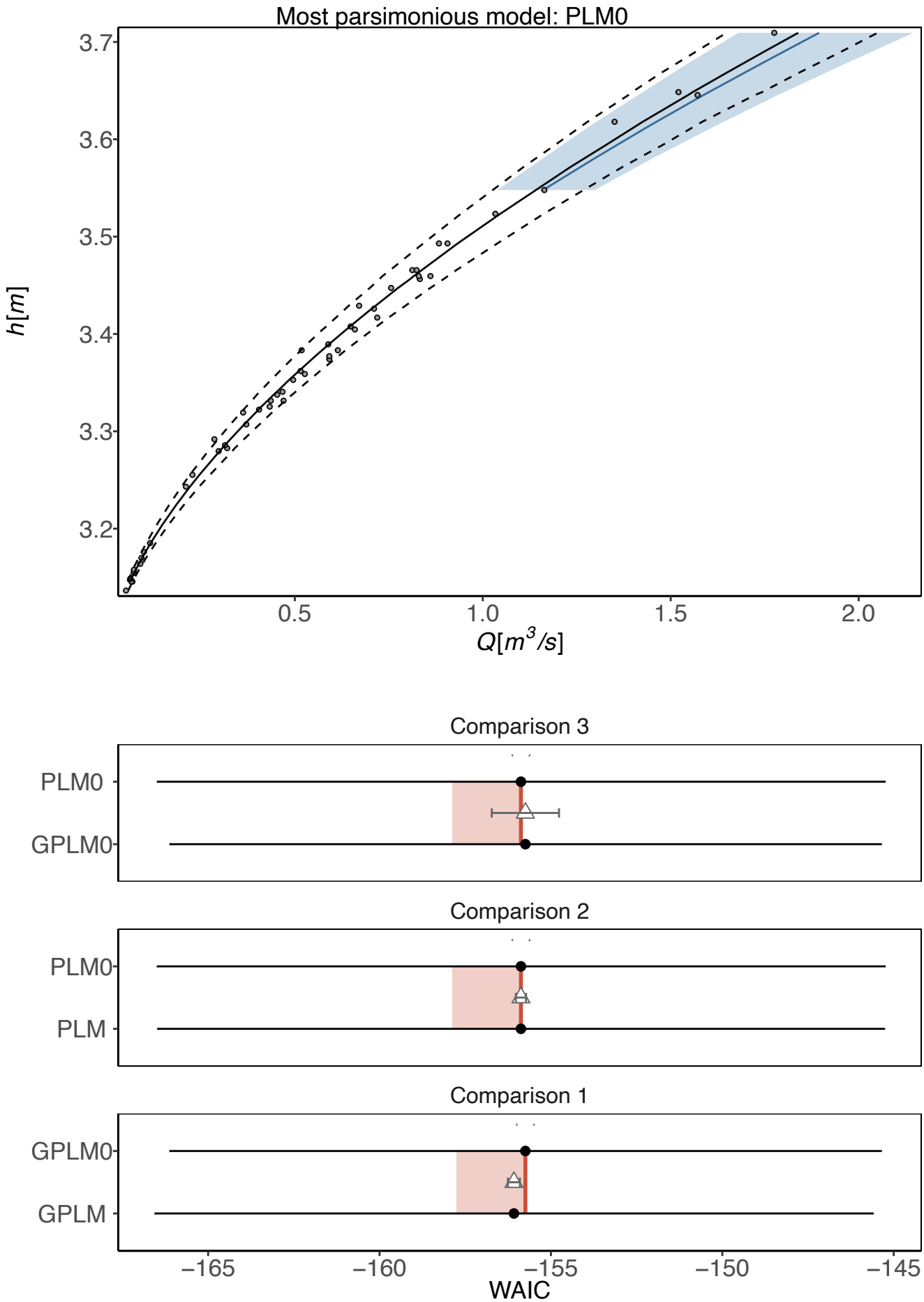
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.78	[3.57; 4.02]	3636	1.00
b	1.67	[1.57; 1.77]	2766	1.00
c	3.06	[3.05; 3.07]	2616	1.00
σ_η	0.08	[0.00; 0.43]	1469	1.00
η_1	–5.91	[–6.35; –5.38]	2337	1.00
η_2	–5.87	[–7.74; –4.09]	2694	1.00
η_3	–5.95	[–8.53; –3.40]	2674	1.00
η_4	–6.23	[–9.29; –2.98]	2715	1.00
η_5	–6.41	[–10.05; –2.62]	2805	1.00
η_6	–6.42	[–10.56; –2.18]	2697	1.00

Palo Verde, Usa – PLM0



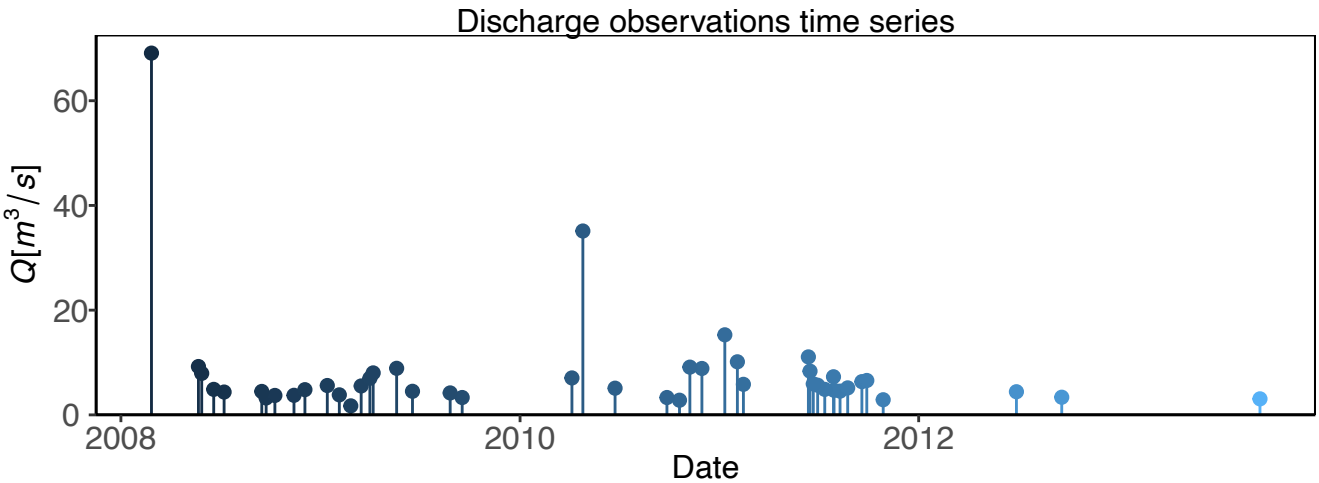
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.79	[3.57; 4.02]	10565	1.00
b	1.67	[1.57; 1.77]	9411	1.00
c	3.06	[3.05; 3.07]	9363	1.00
σ_ε	0.05	[0.04; 0.06]	9369	1.00

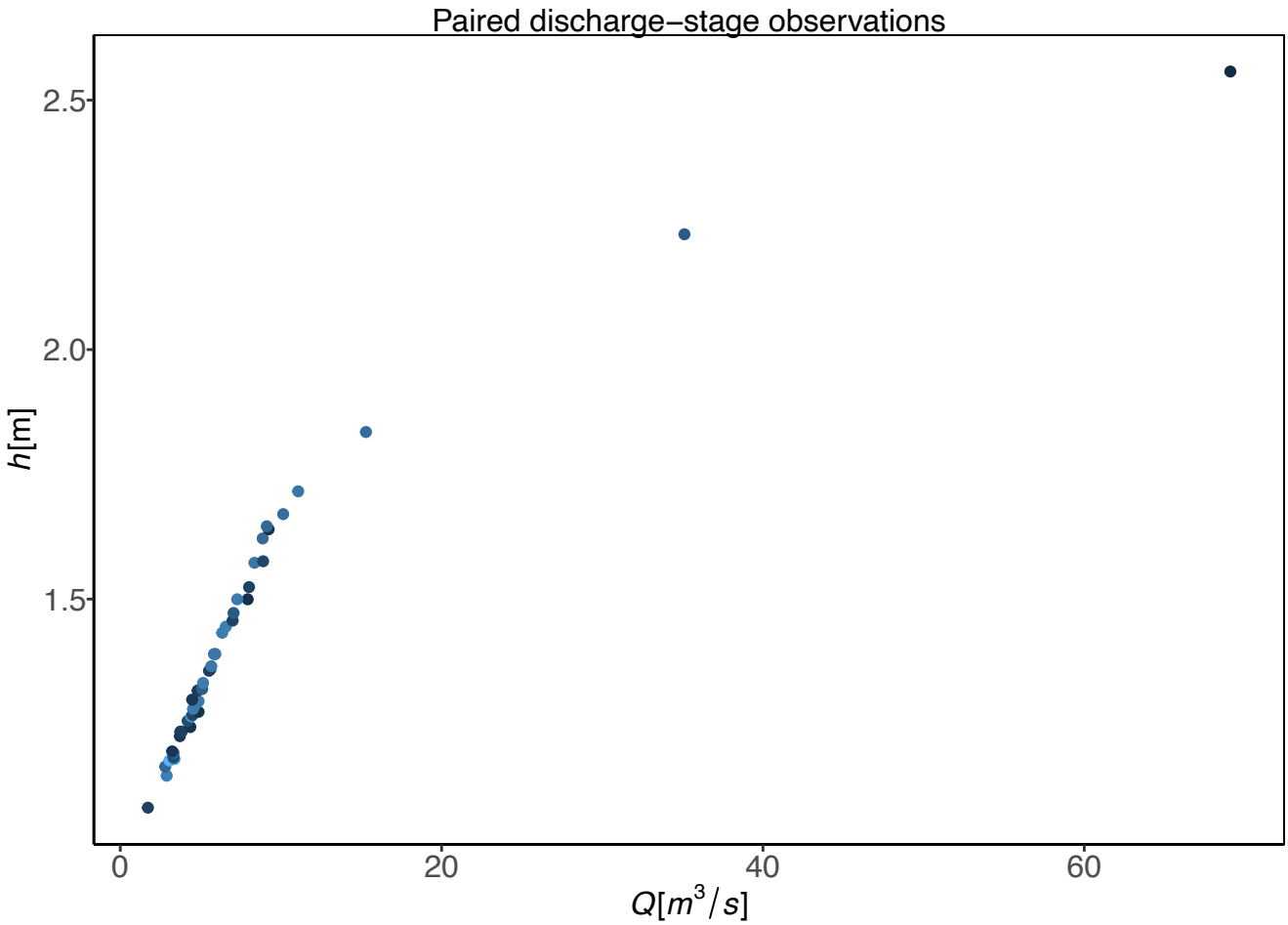
Power−law tournament results for Palo Verde, Usa



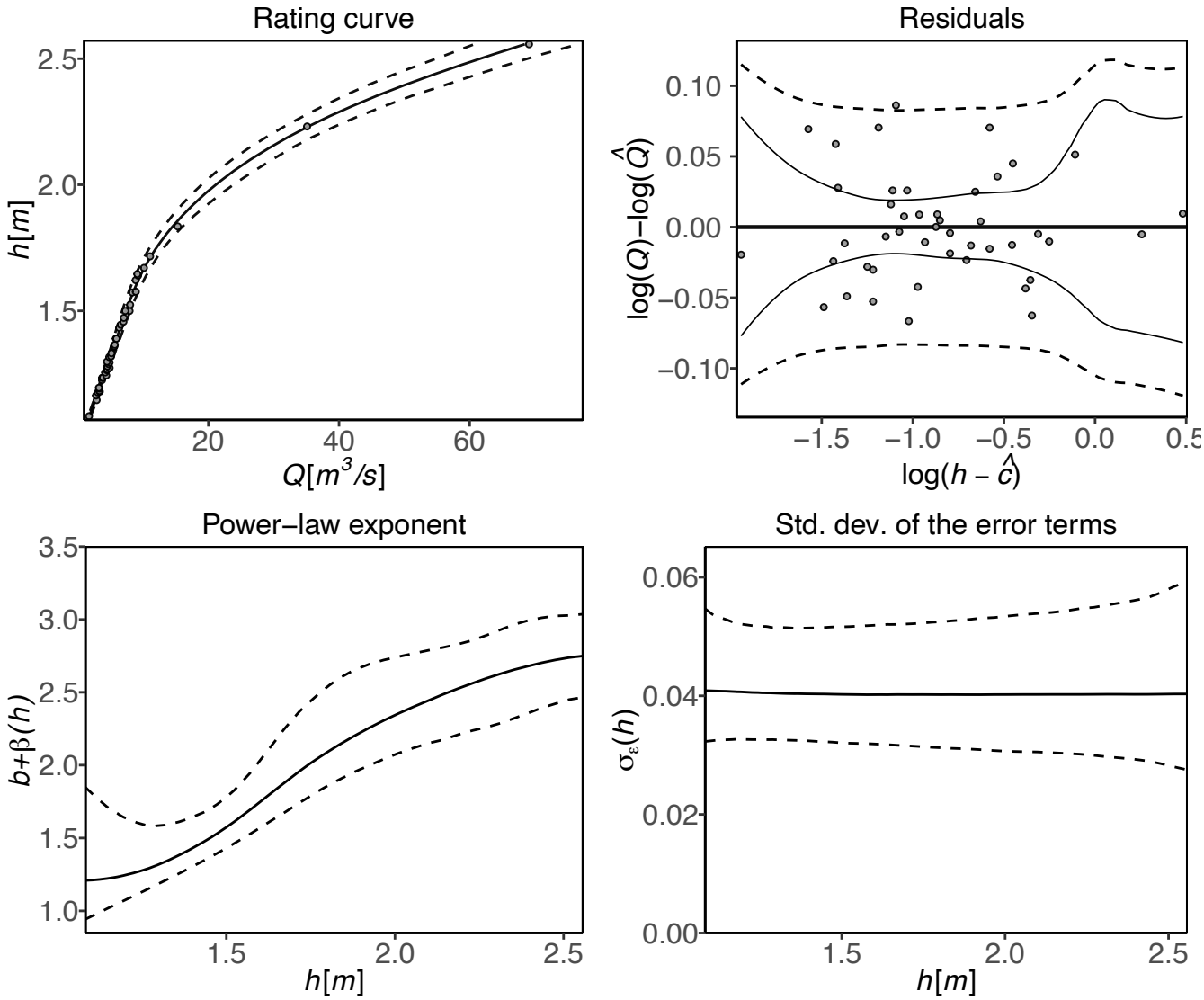
Station name:	Eel
Location:	California, USA
Station number:	11470500
Number of observations:	45
Start date:	2008–02–26
End date:	2013–09–17
Max. discharge (m^3/s):	69.1
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.51
GPLM0	0.06	0.49
PLM	27.97	0.00
PLM0	84.33	0.00



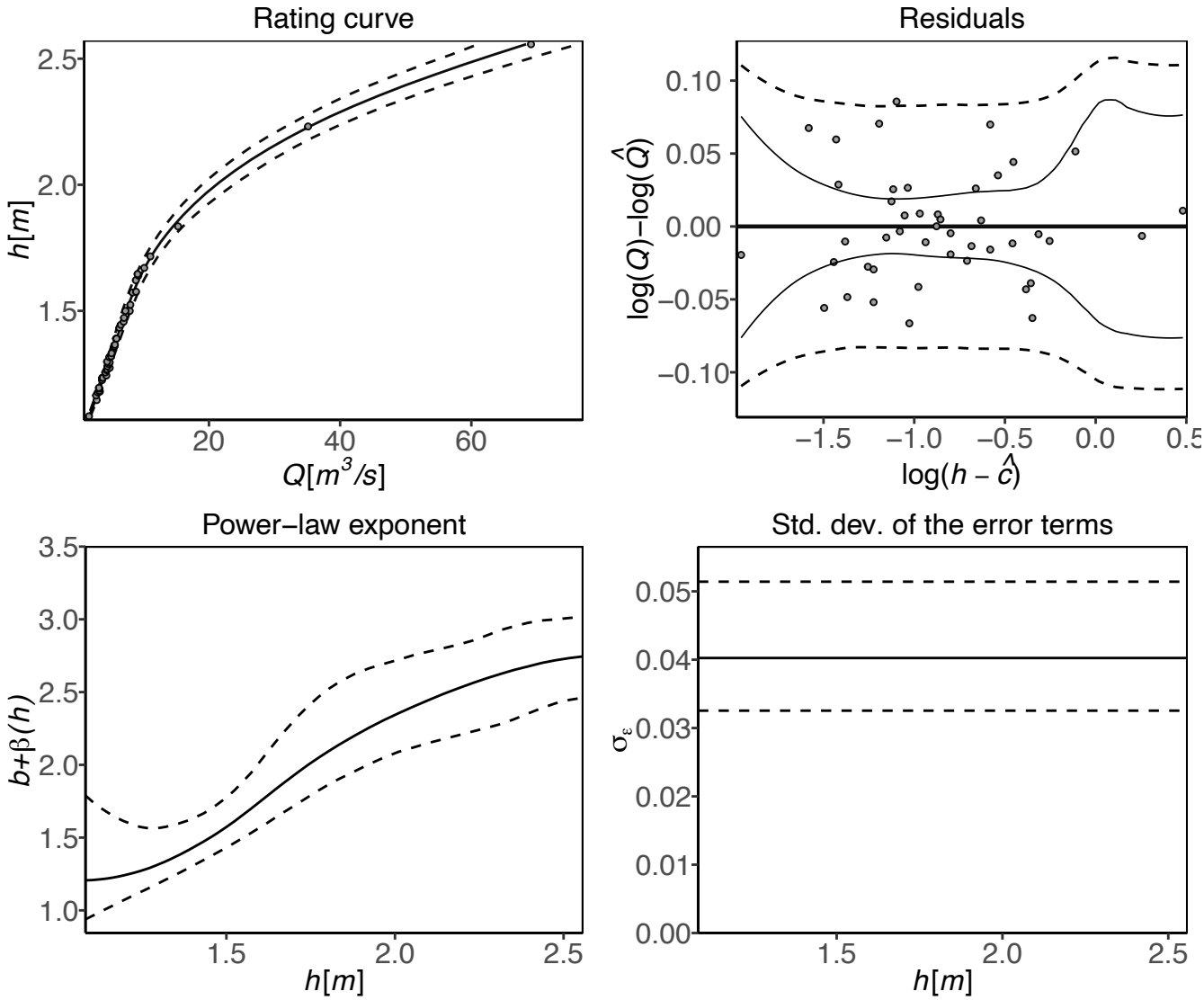


Eel, Usa – GPLM



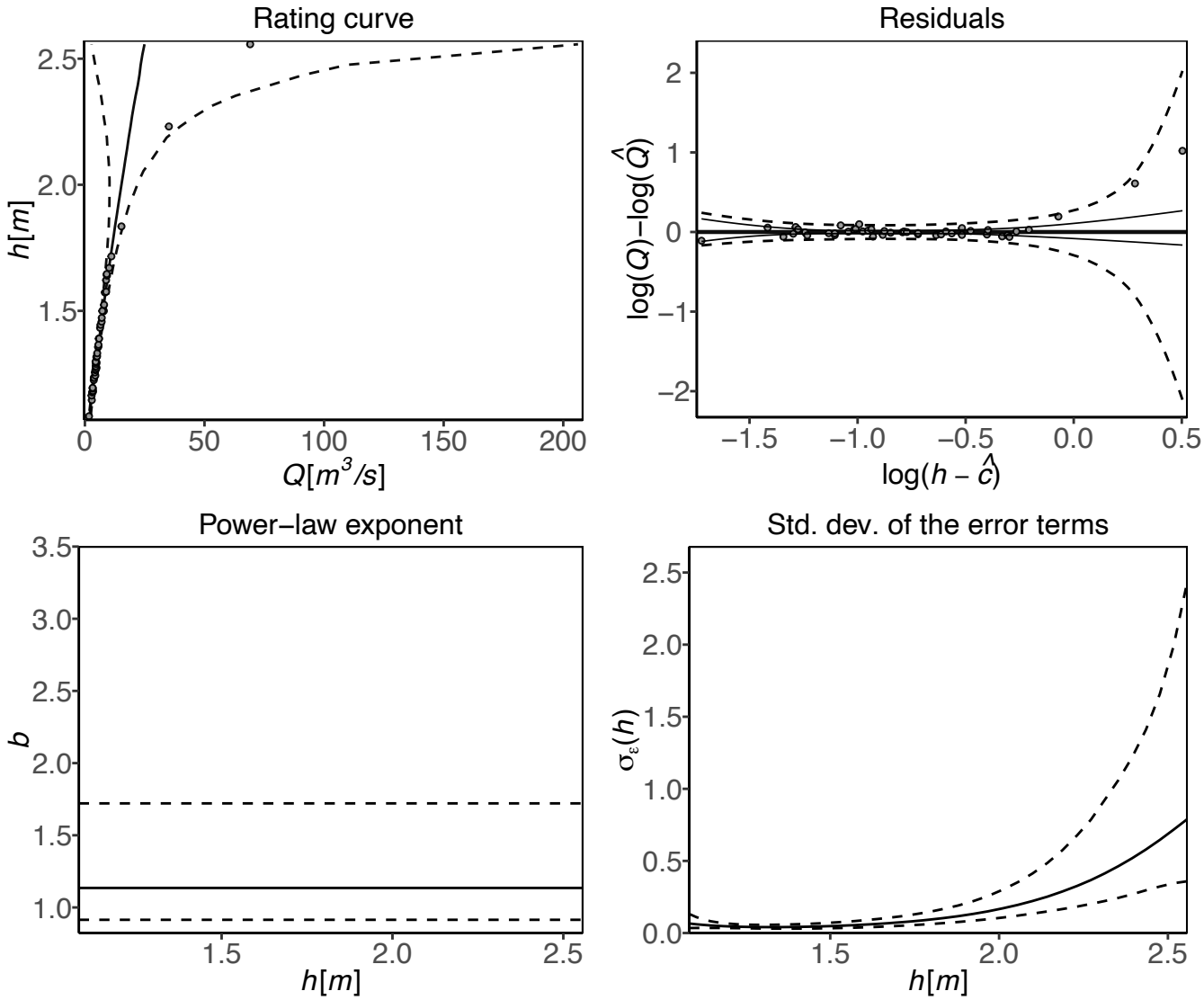
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.38	[10.92; 22.17]	1929	1.00
b	1.83	[1.83; 1.84]	10639	1.00
c	0.94	[0.71; 1.01]	2017	1.00
σ_β	0.60	[0.34; 1.14]	2542	1.00
ϕ_β	0.87	[0.36; 1.85]	1784	1.00
σ_η	0.09	[0.00; 0.43]	1526	1.01
η_1	–6.39	[–6.87; –5.81]	1913	1.00
η_2	–6.53	[–8.35; –4.64]	2398	1.00
η_3	–6.57	[–9.18; –3.91]	2387	1.00
η_4	–6.60	[–9.76; –3.32]	2233	1.00
η_5	–6.58	[–10.34; –2.83]	2463	1.00
η_6	–6.53	[–10.85; –2.31]	2299	1.00

Eel, Usa – GPLM0



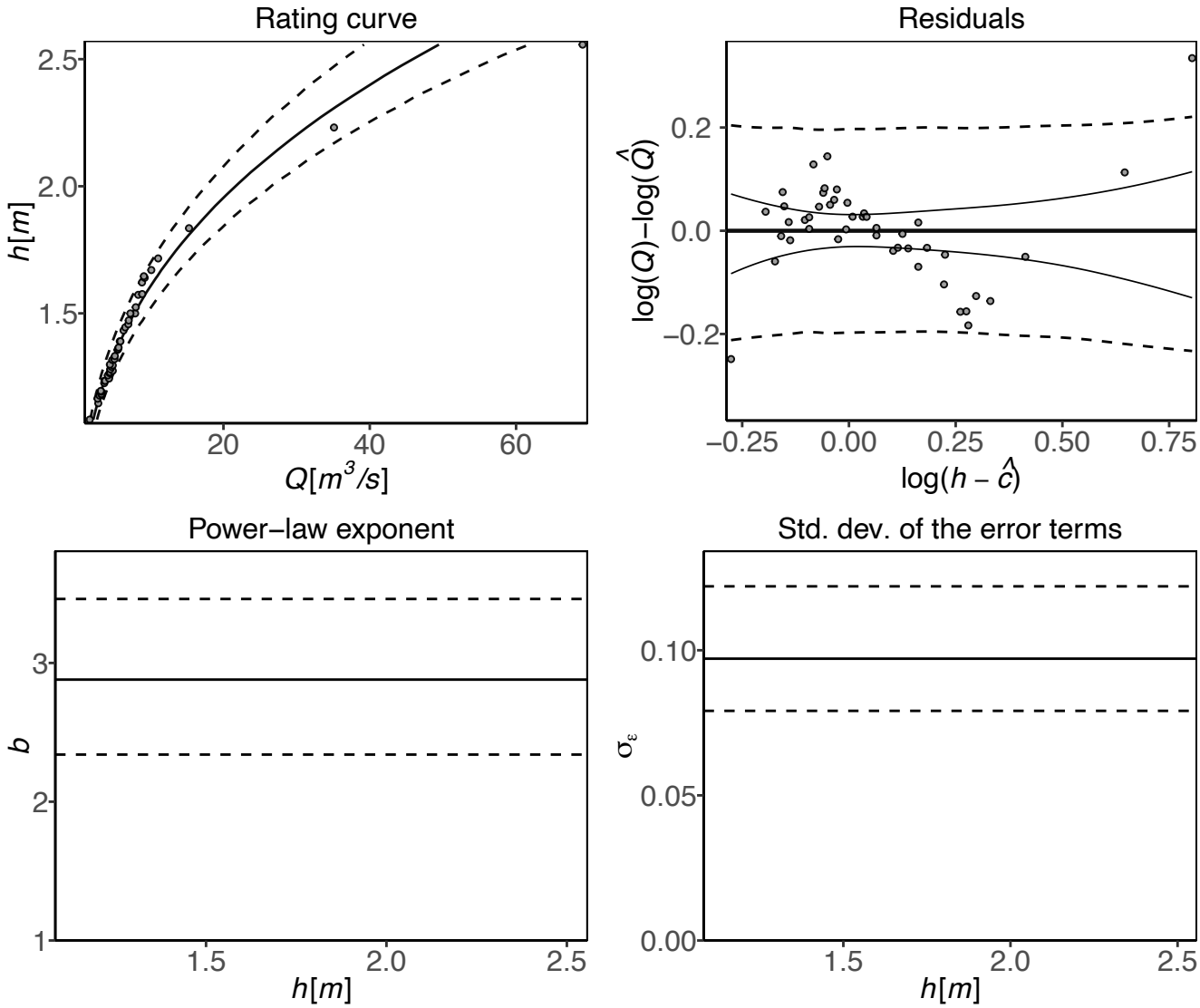
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.43	[11.40; 22.30]	4789	1.00
b	1.84	[1.83; 1.84]	14333	1.00
c	0.94	[0.73; 1.02]	4757	1.00
σ_ε	0.04	[0.03; 0.05]	5041	1.00
σ_β	0.77	[0.59; 1.07]	5786	1.00
ϕ_β	0.88	[0.37; 1.86]	4200	1.00

Eel, Usa – PLM



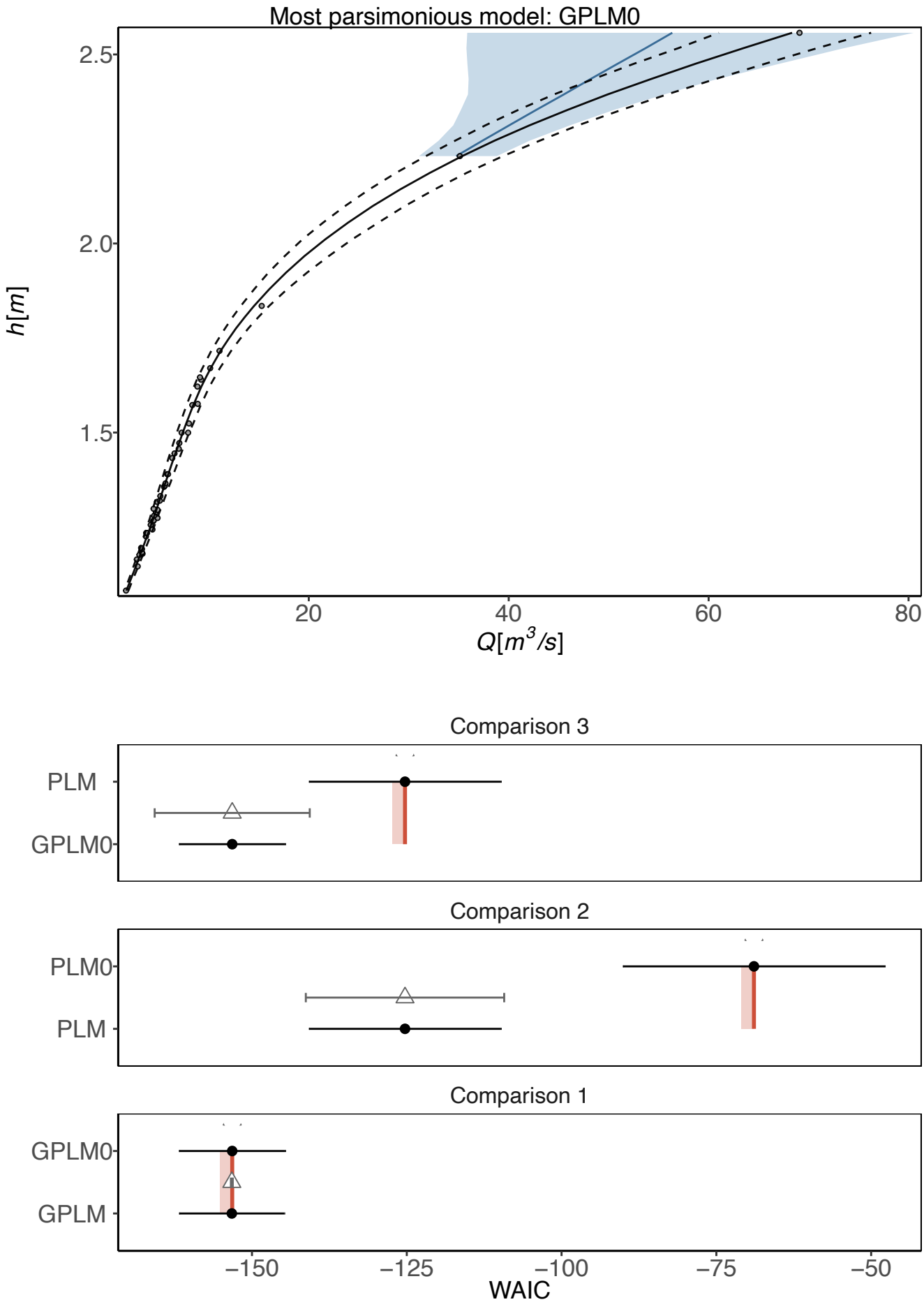
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	13.49	[10.46; 14.29]	2177	1.00
b	1.14	[0.91; 1.72]	2027	1.00
c	0.90	[0.67; 0.98]	2143	1.00
σ_η	1.16	[0.72; 1.78]	2077	1.00
η_1	–5.43	[–6.72; –4.04]	2511	1.00
η_2	–6.59	[–7.44; –5.72]	2217	1.00
η_3	–5.96	[–6.97; –4.77]	2297	1.00
η_4	–3.48	[–4.68; –2.04]	2577	1.00
η_5	–1.79	[–3.33; 0.14]	2375	1.00
η_6	–1.08	[–2.73; 1.35]	2586	1.00

Eel, Usa – PLM0



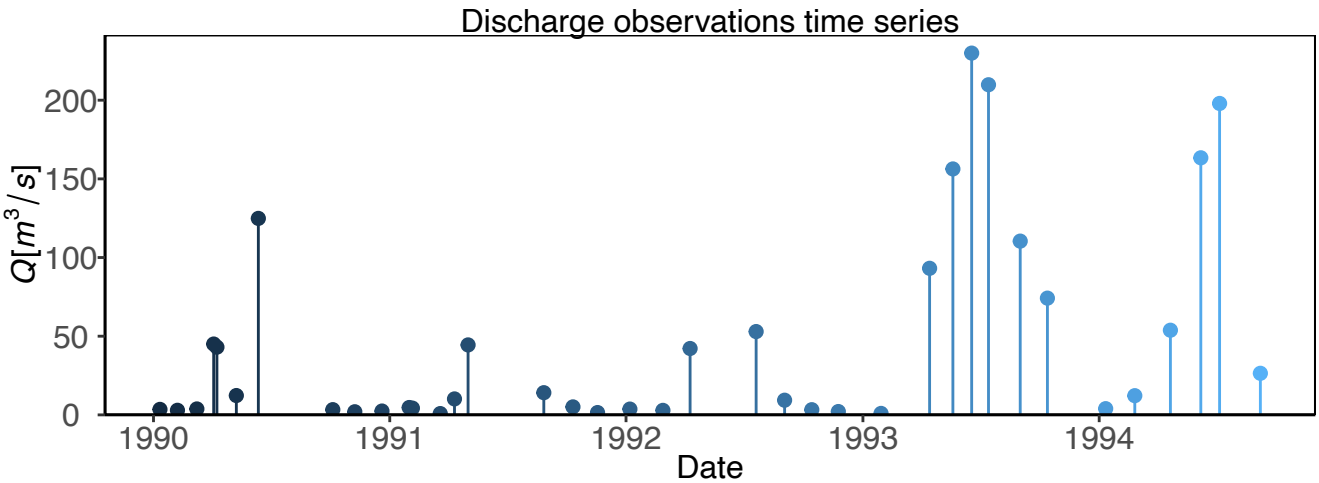
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.88	[2.31; 8.74]	10089	1.00
b	2.88	[2.34; 3.46]	9874	1.00
c	0.32	[0.08; 0.54]	9603	1.00
σ_ε	0.10	[0.08; 0.12]	9698	1.00

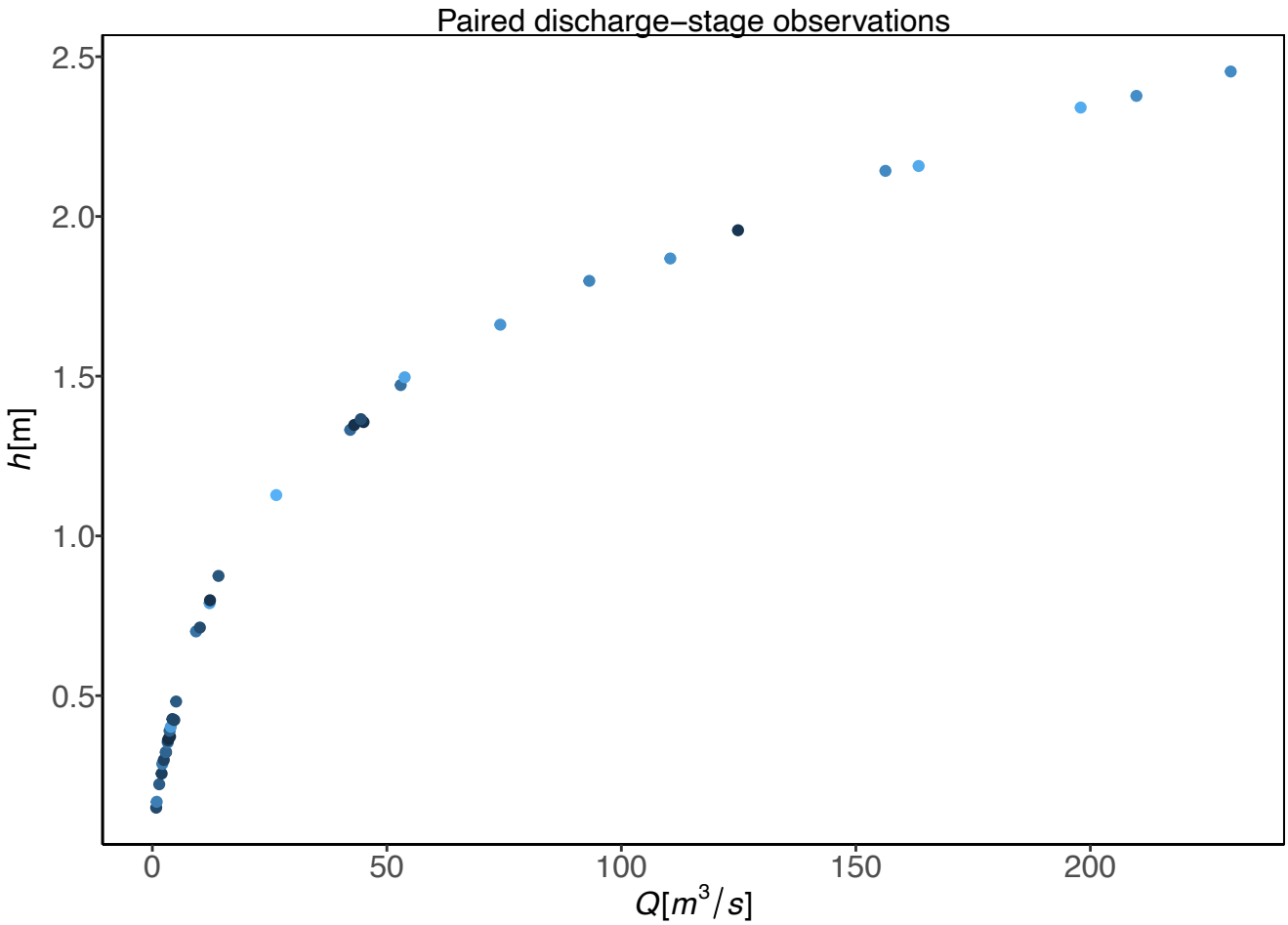
Power−law tournament results for Eel, Usa



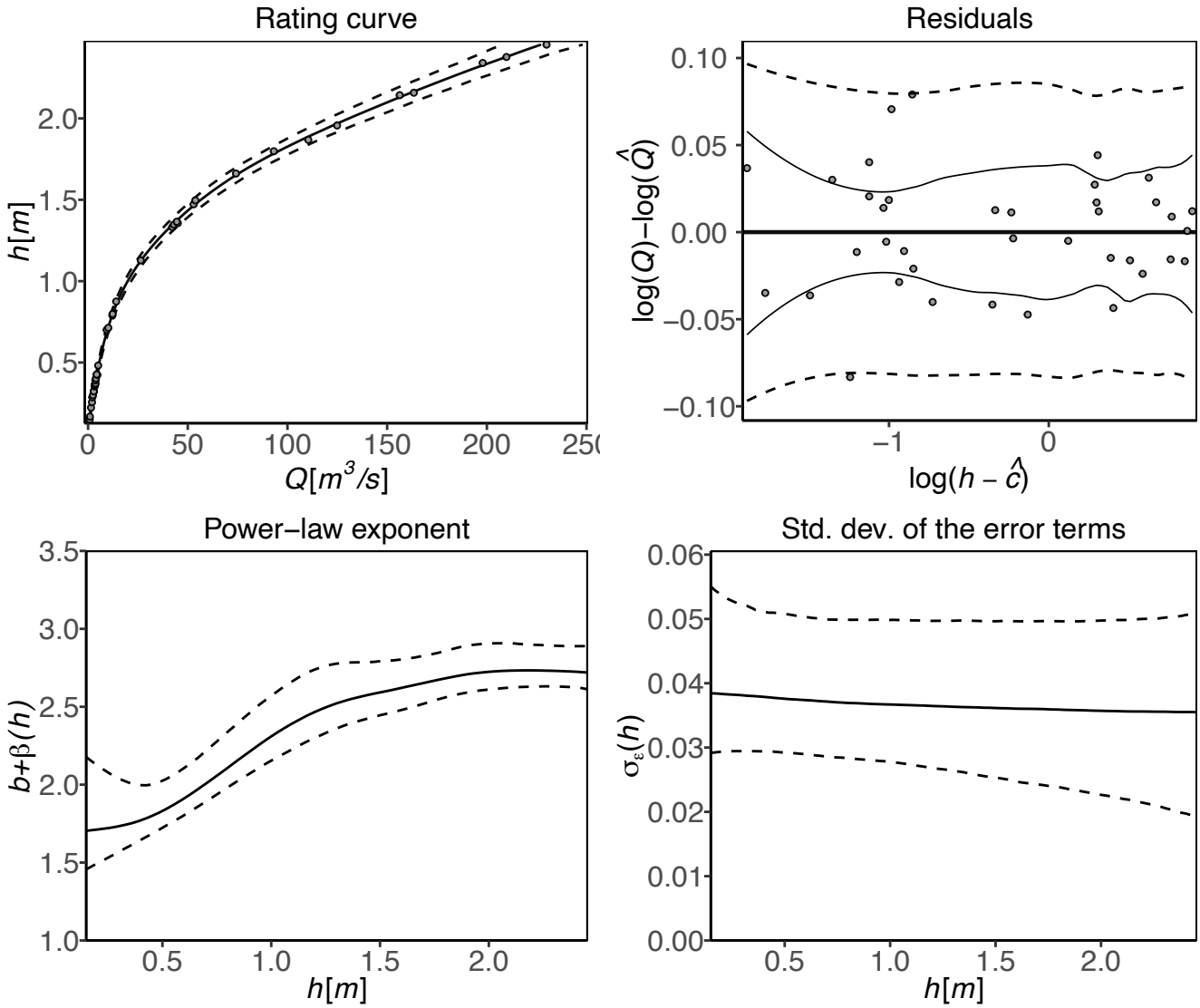
Station name:	Kings
Location:	California, USA
Station number:	11221500
Number of observations:	38
Start date:	1990–01–11
End date:	1994–09–07
Max. discharge (m^3/s):	229.9
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.62
GPLM0	0.94	0.38
PLM	69.17	0.00
PLM0	72.90	0.00



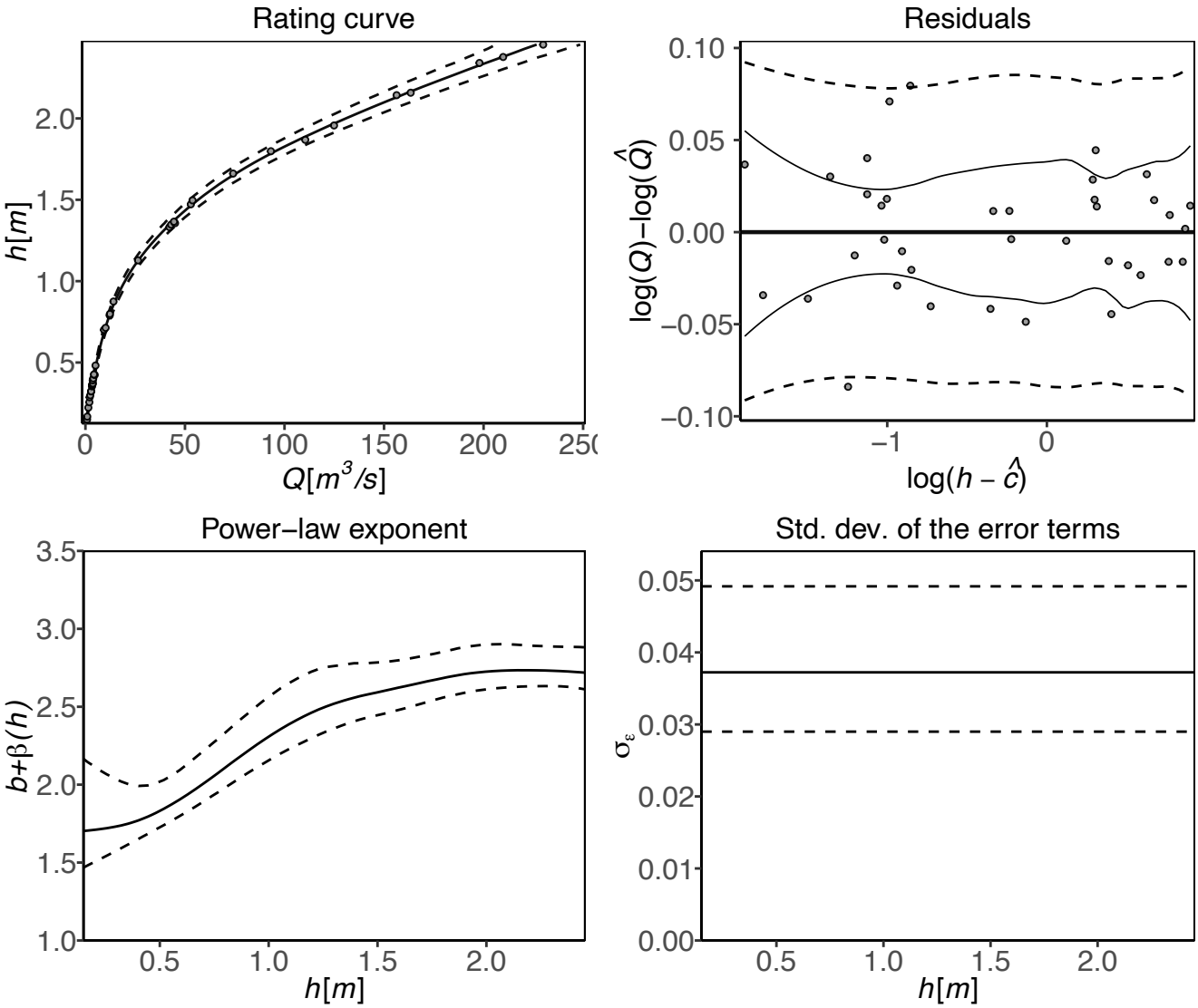


Kings, Usa – GPLM



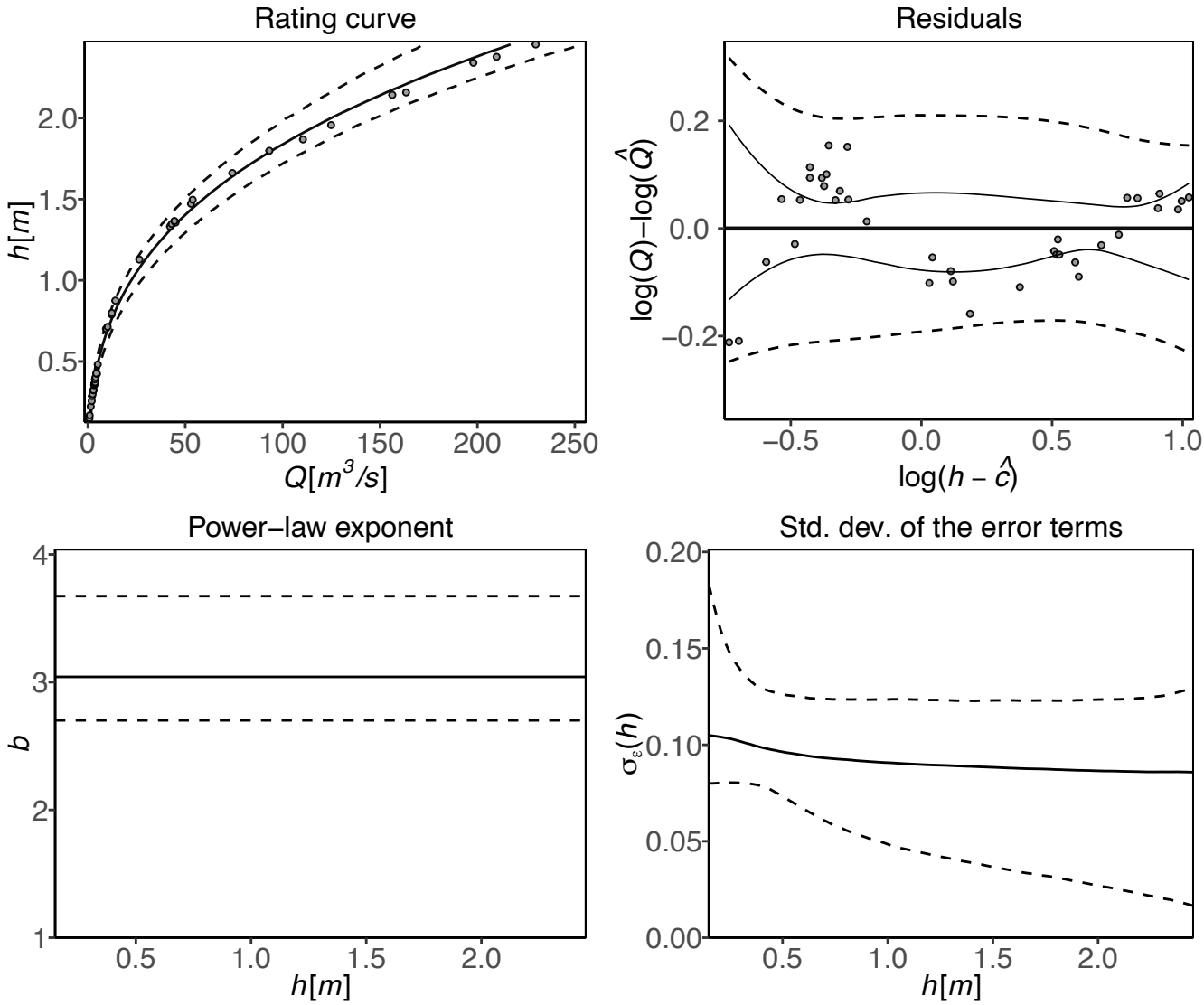
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	19.77	[15.18; 22.47]	2122	1.00
b	1.84	[1.83; 1.84]	9833	1.00
c	0.00	[–0.11; 0.05]	2150	1.00
σ_β	0.53	[0.31; 1.03]	2077	1.00
ϕ_β	1.25	[0.65; 2.57]	2541	1.00
σ_η	0.09	[0.00; 0.50]	1534	1.00
η_1	–6.52	[–7.07; –5.80]	1996	1.00
η_2	–6.70	[–8.55; –4.79]	2179	1.00
η_3	–7.02	[–9.64; –4.21]	2234	1.00
η_4	–7.29	[–10.42; –3.83]	2273	1.00
η_5	–7.45	[–11.16; –3.50]	2472	1.00
η_6	–7.56	[–11.81; –3.03]	2317	1.00

Kings, Usa – GPLM0



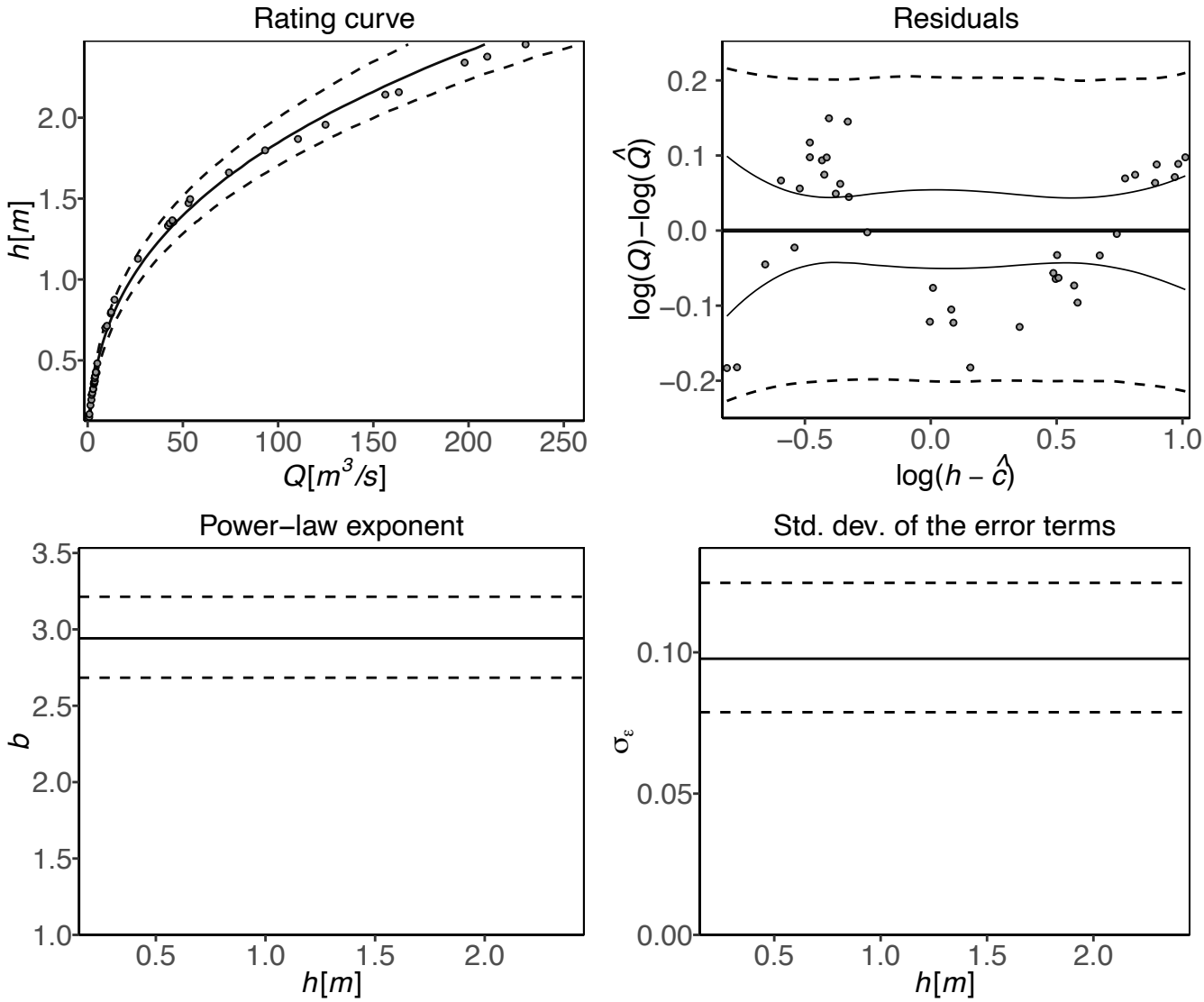
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	19.75	[15.29; 22.34]	5017	1.00
b	1.84	[1.83; 1.84]	11094	1.00
c	0.00	[–0.11; 0.05]	4870	1.00
σ_ε	0.04	[0.03; 0.05]	5290	1.00
σ_β	0.72	[0.56; 1.00]	4969	1.00
ϕ_β	1.24	[0.66; 2.59]	5338	1.00

Kings, Usa – PLM



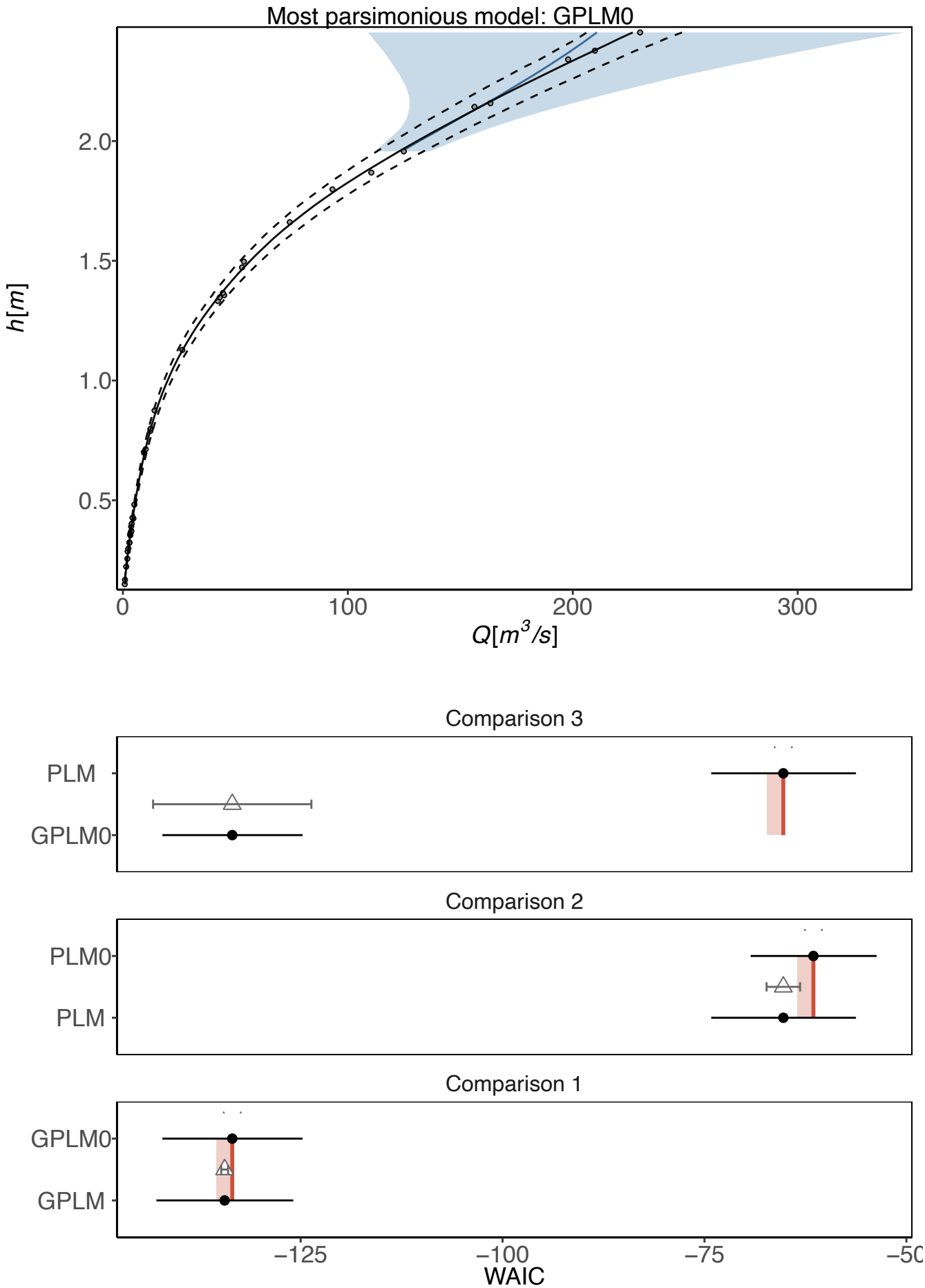
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.48	[3.91; 13.96]	950	1.03
b	3.04	[2.70; 3.67]	945	1.03
c	–0.33	[–0.58; –0.21]	966	1.03
σ_η	0.18	[0.01; 0.91]	752	1.16
η_1	–4.51	[–5.05; –3.40]	1221	1.02
η_2	–4.92	[–6.69; –3.00]	1450	1.02
η_3	–5.48	[–7.99; –2.47]	1709	1.02
η_4	–6.00	[–9.08; –2.06]	1717	1.02
η_5	–6.32	[–10.02; –1.71]	2120	1.01
η_6	–6.42	[–10.83; –1.32]	2507	1.00

Kings, Usa – PLM0



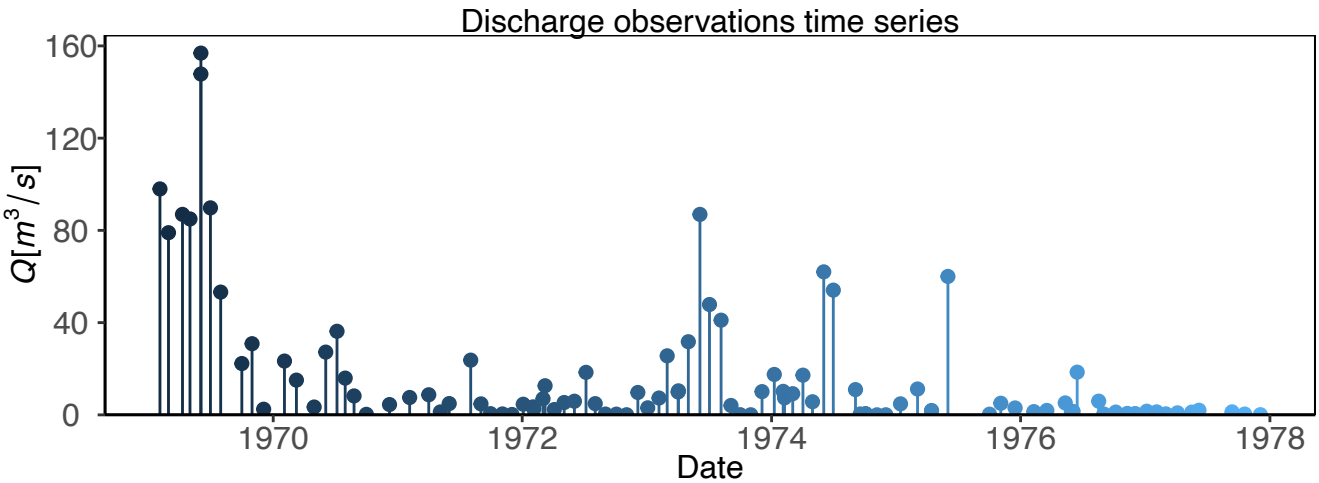
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.66	[7.60; 14.30]	9807	1.00
b	2.94	[2.68; 3.21]	9855	1.00
c	–0.30	[–0.39; –0.21]	9579	1.00
σ_ε	0.10	[0.08; 0.12]	9962	1.00

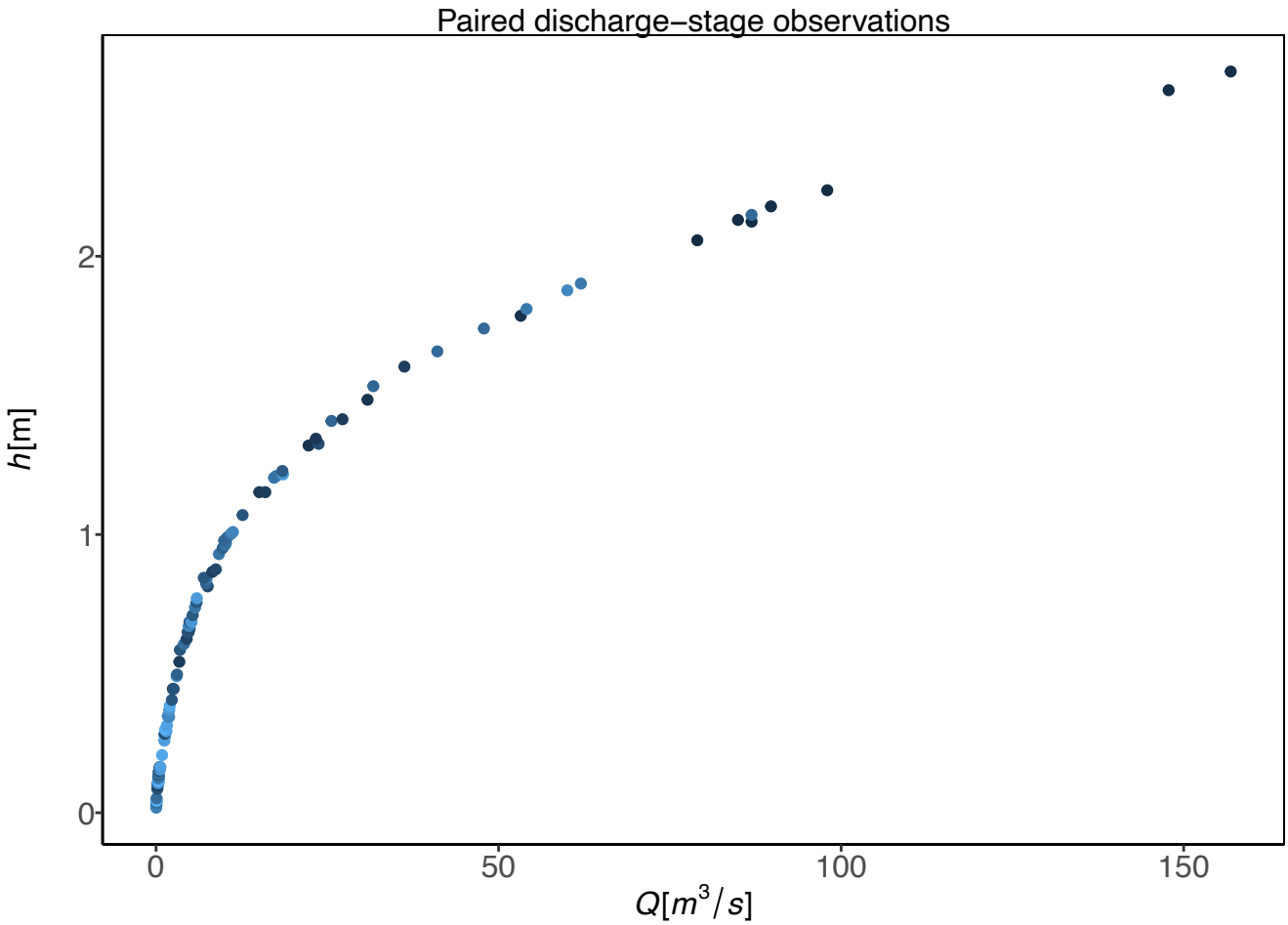
Power−law tournament results for Kings, Usa



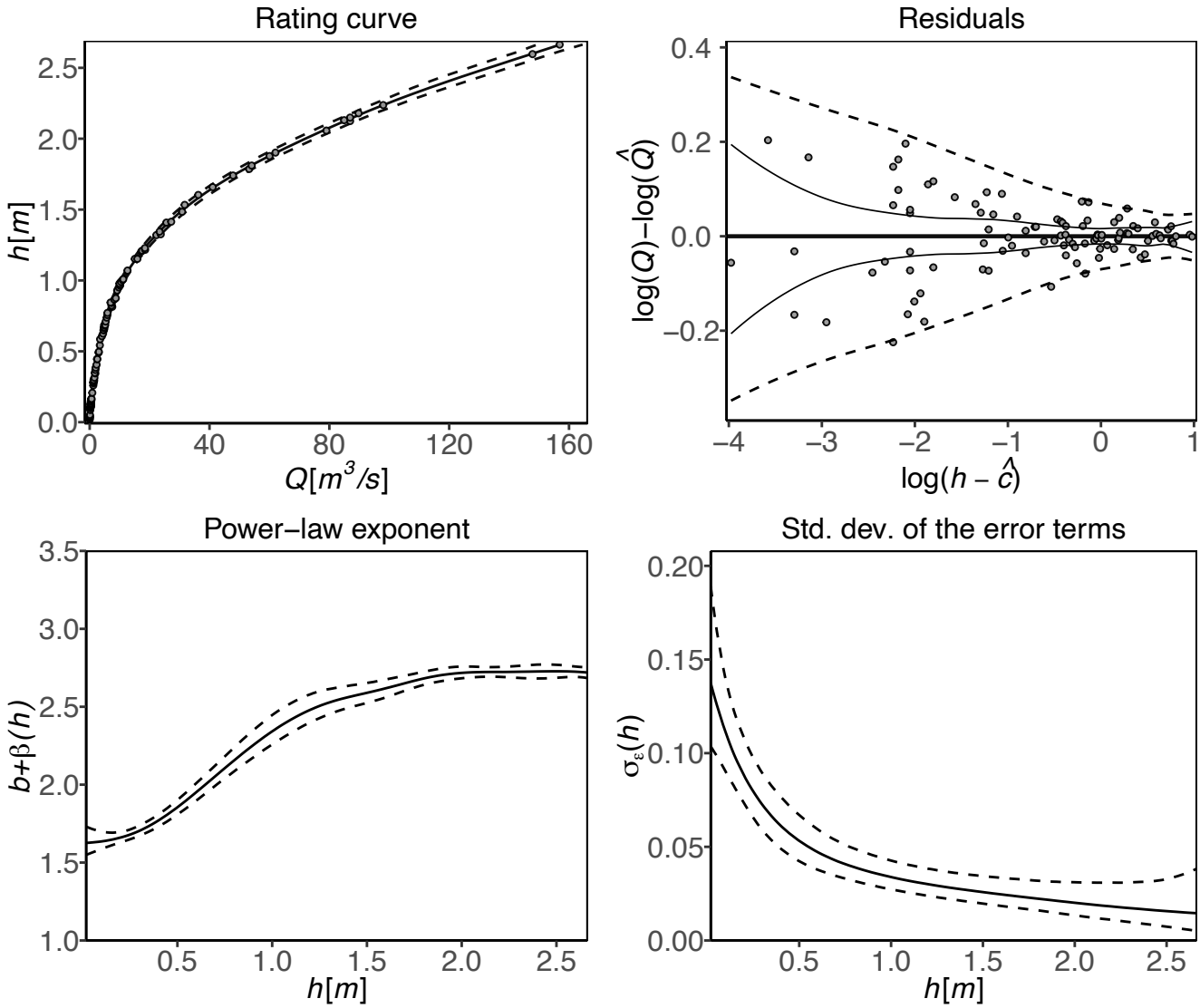
Station name:	Kaweah Terminus Dam
Location:	California, USA
Station number:	11210950
Number of observations:	101
Start date:	1969–02–03
End date:	1977–12–04
Max. discharge (m^3/s):	156.9
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	1
GPLM0	87.56	0
PLM	172.66	0
PLM0	305.67	0



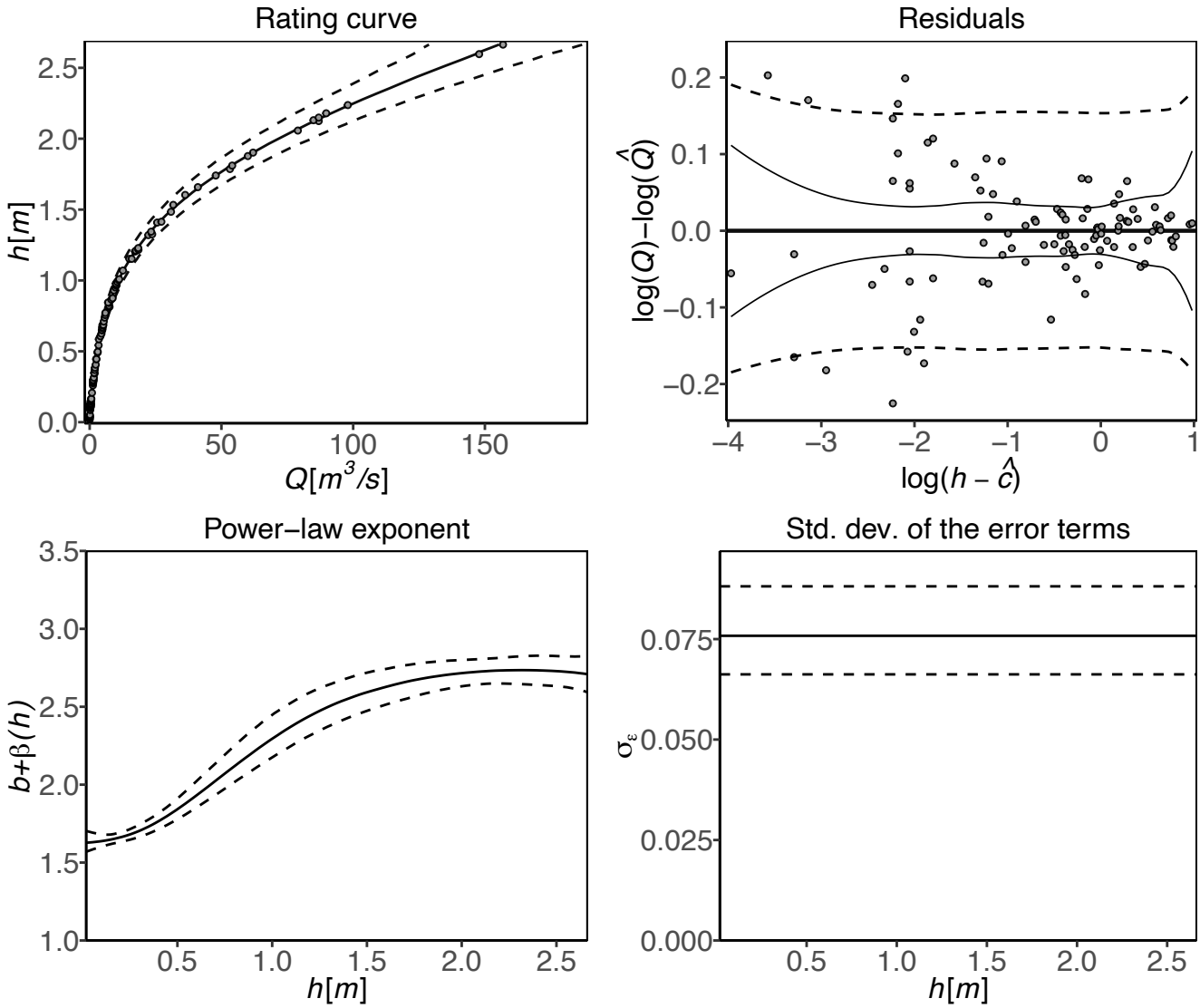


Kaweah Terminus Dam, Usa – GPLM



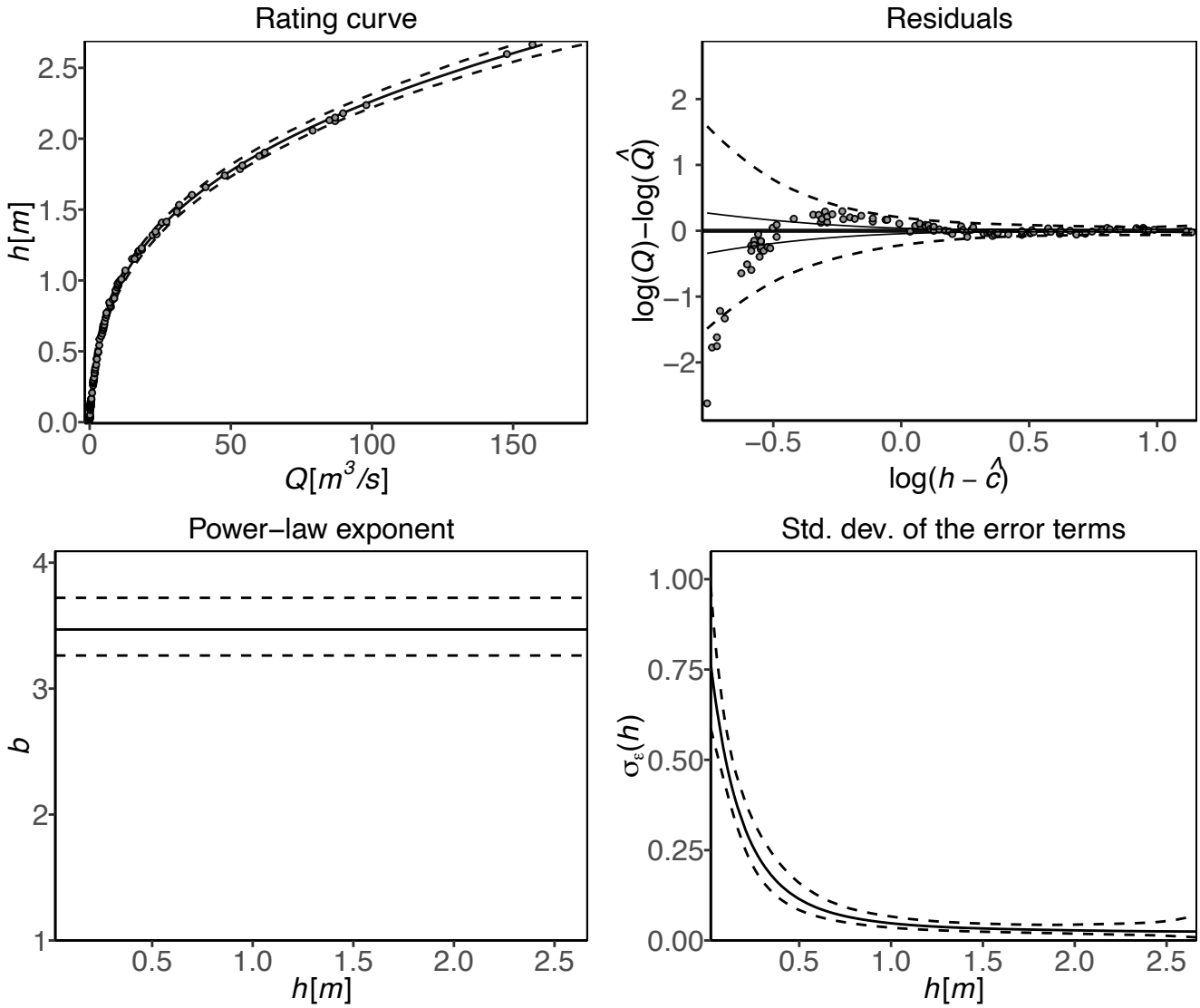
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.93	[10.67; 11.16]	3539	1.00
b	1.84	[1.83; 1.84]	9252	1.00
c	0.00	[–0.01; 0.00]	2058	1.00
σ_β	0.51	[0.31; 0.95]	2131	1.00
ϕ_β	1.35	[0.79; 2.38]	2224	1.00
σ_η	0.81	[0.53; 1.28]	2018	1.00
η_1	–3.97	[–4.54; –3.33]	2133	1.00
η_2	–5.96	[–7.23; –4.88]	1945	1.00
η_3	–7.45	[–9.27; –5.93]	2195	1.00
η_4	–8.34	[–10.72; –6.46]	2237	1.00
η_5	–9.17	[–11.90; –6.91]	2108	1.00
η_6	–9.46	[–12.64; –6.75]	2285	1.00

Kaweah Terminus Dam, Usa – GPLM0



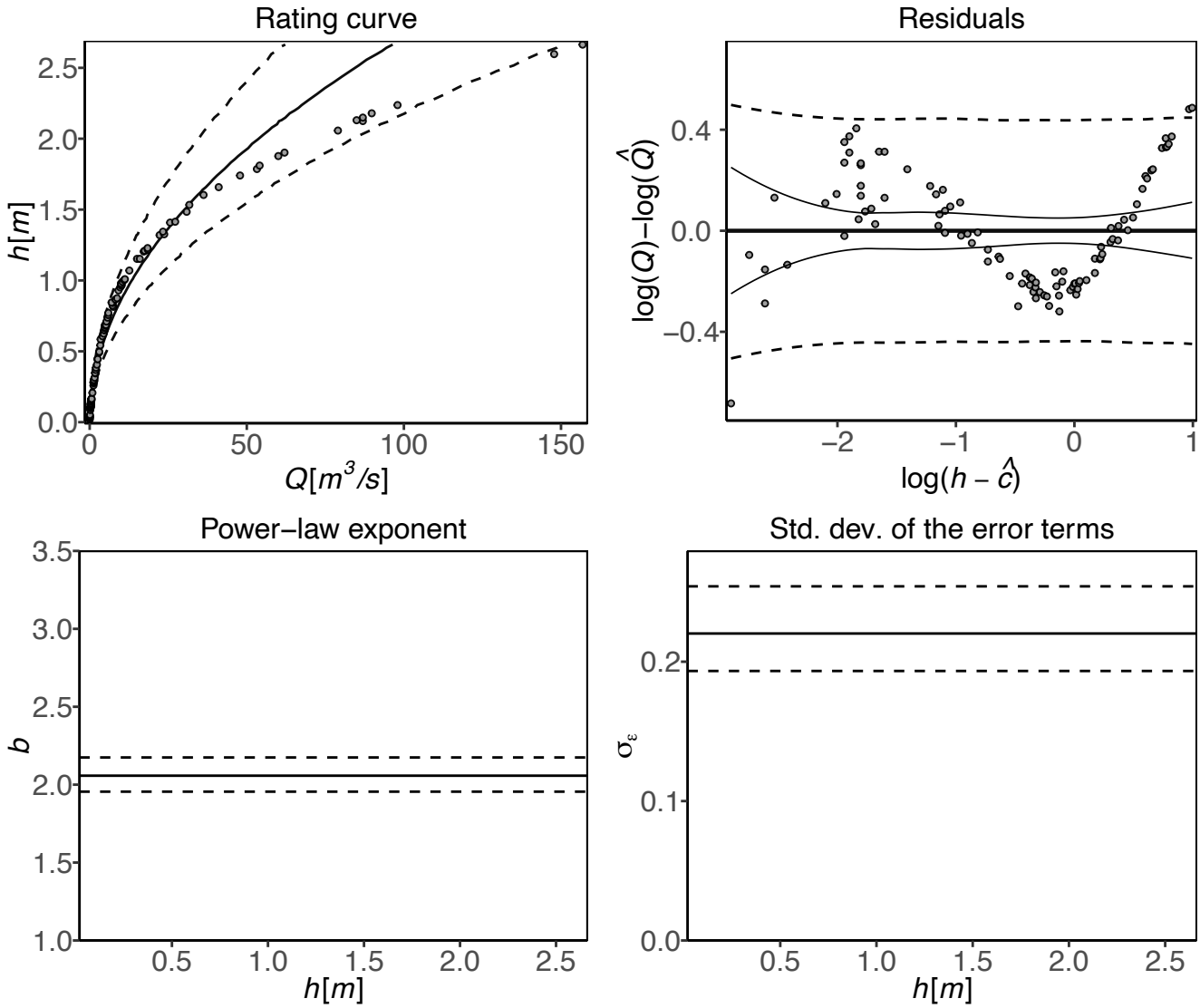
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.90	[10.55; 11.26]	10784	1.00
b	1.84	[1.83; 1.84]	12932	1.00
c	0.00	[–0.01; 0.00]	5382	1.00
σ_ε	0.08	[0.07; 0.09]	5632	1.00
σ_β	0.72	[0.55; 0.99]	5734	1.00
ϕ_β	1.45	[0.82; 2.58]	5315	1.00

Kaweah Terminus Dam, Usa – PLM



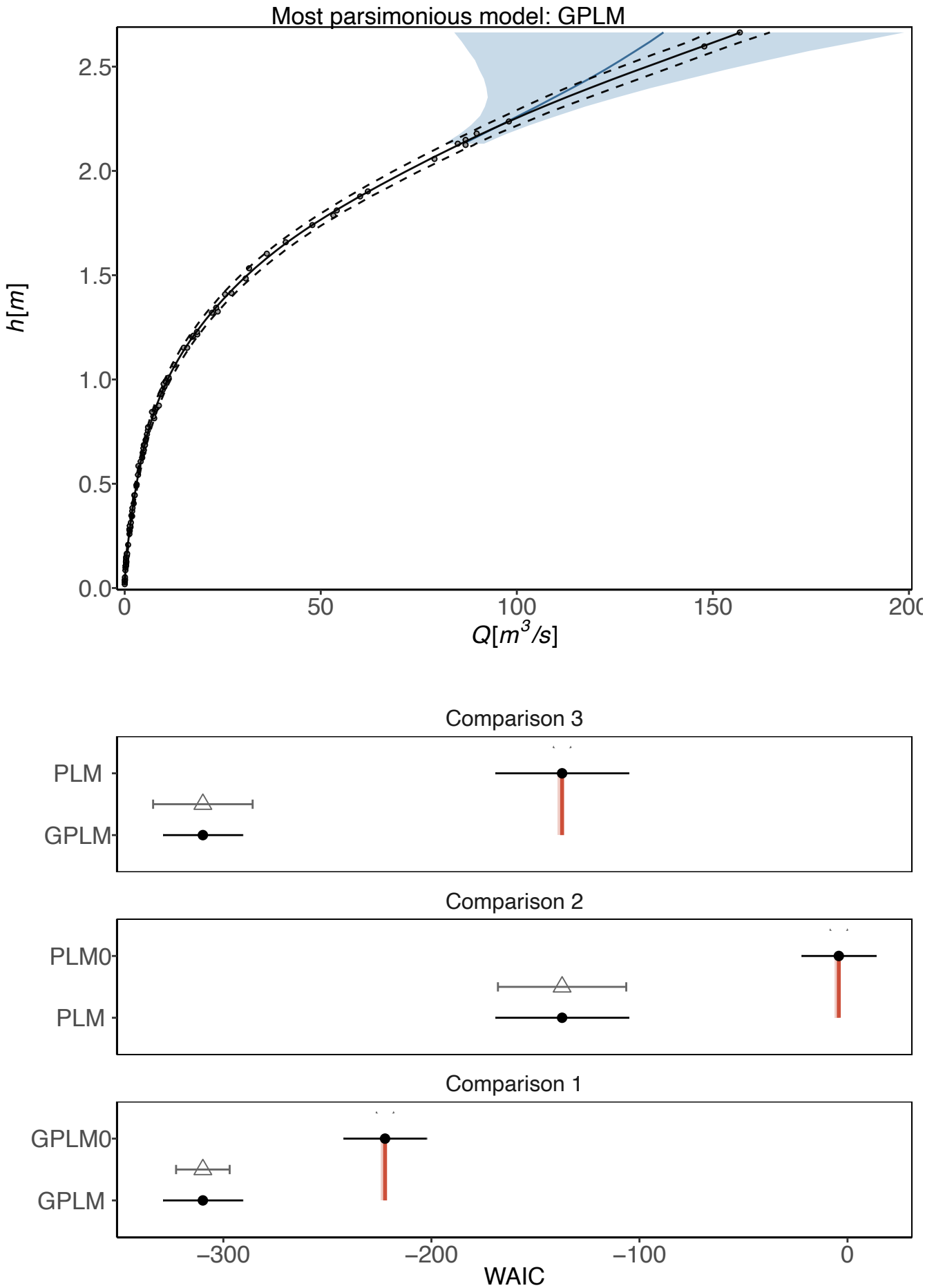
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.13	[2.10; 4.33]	2630	1.00
b	3.47	[3.26; 3.72]	2669	1.00
c	–0.45	[–0.57; –0.35]	2607	1.00
σ_η	1.23	[0.87; 1.76]	2201	1.00
η_1	–0.53	[–1.06; –0.04]	2618	1.00
η_2	–3.15	[–4.49; –2.07]	2155	1.00
η_3	–5.28	[–7.19; –3.73]	2366	1.00
η_4	–5.86	[–8.20; –3.99]	2616	1.00
η_5	–6.08	[–8.70; –3.94]	2383	1.00
η_6	–6.14	[–9.09; –3.71]	2887	1.00

Kaweah Terminus Dam, Usa – PLM0



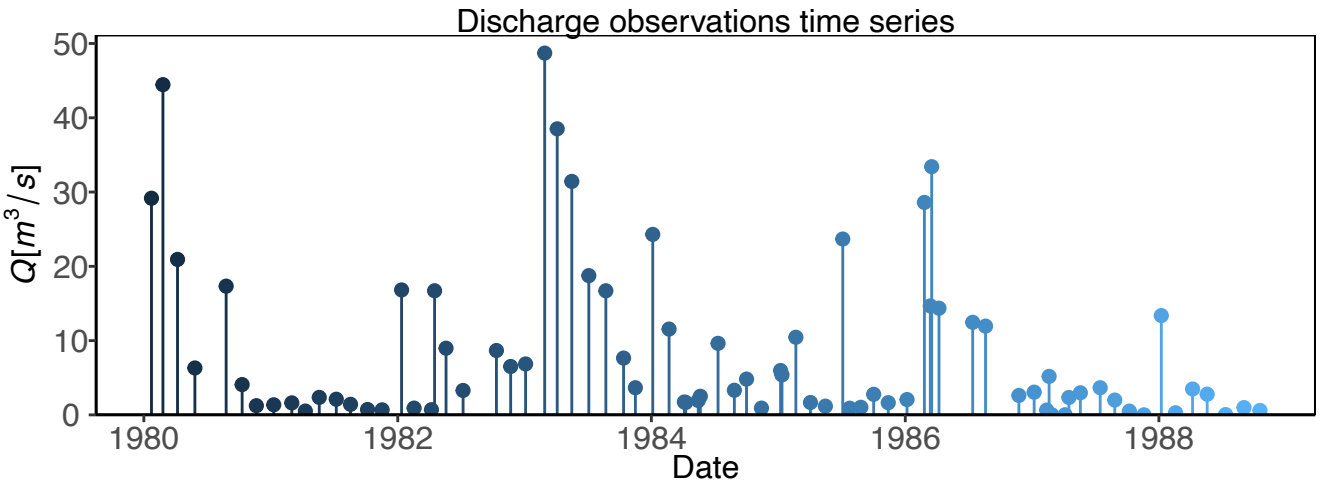
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.42	[11.63; 13.21]	12283	1.00
b	2.06	[1.96; 2.17]	9937	1.00
c	–0.04	[–0.05; –0.02]	9201	1.00
σ_ε	0.22	[0.19; 0.25]	9696	1.00

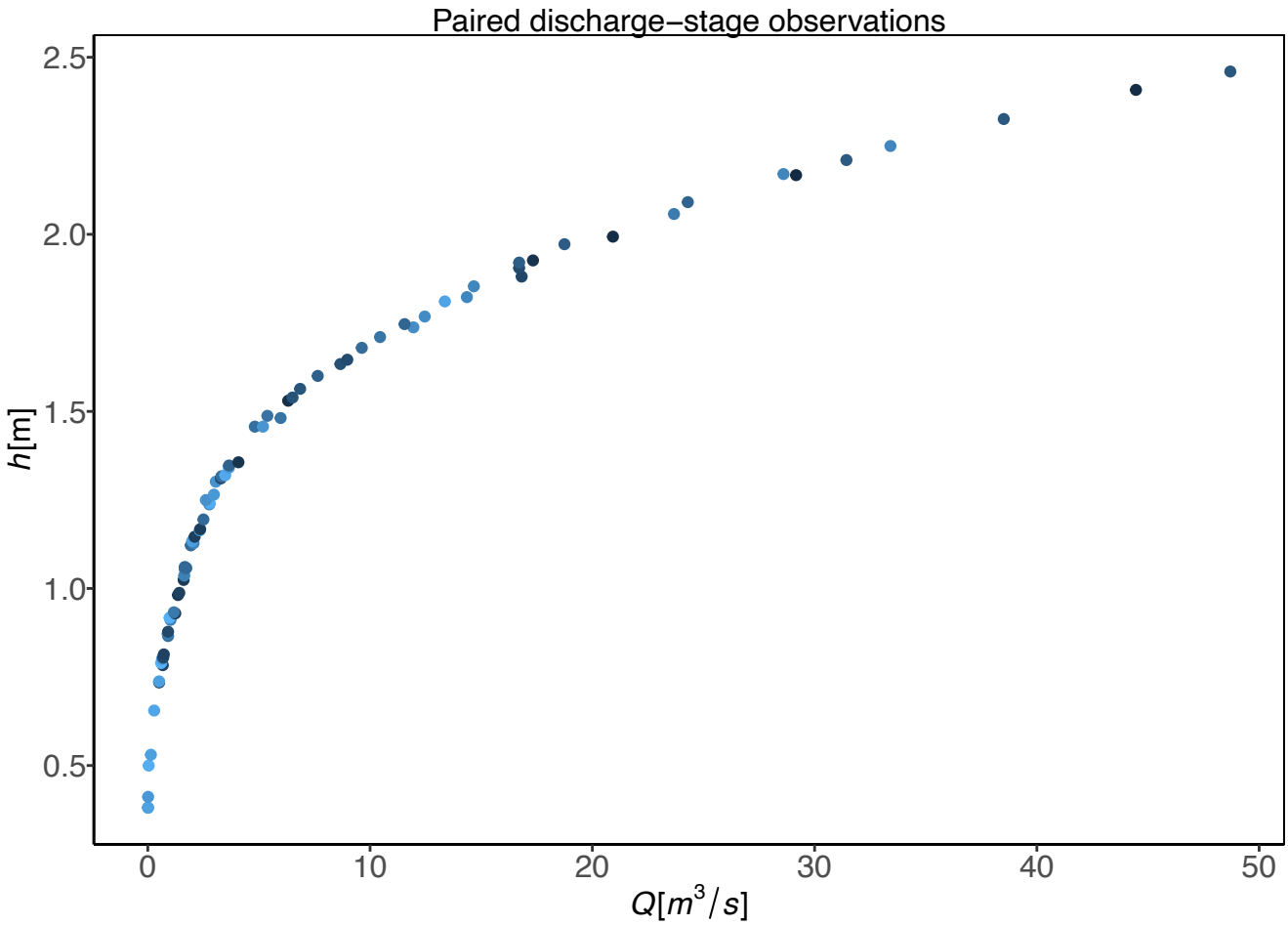
Power−law tournament results for Kaweah Terminus Dam, Usa



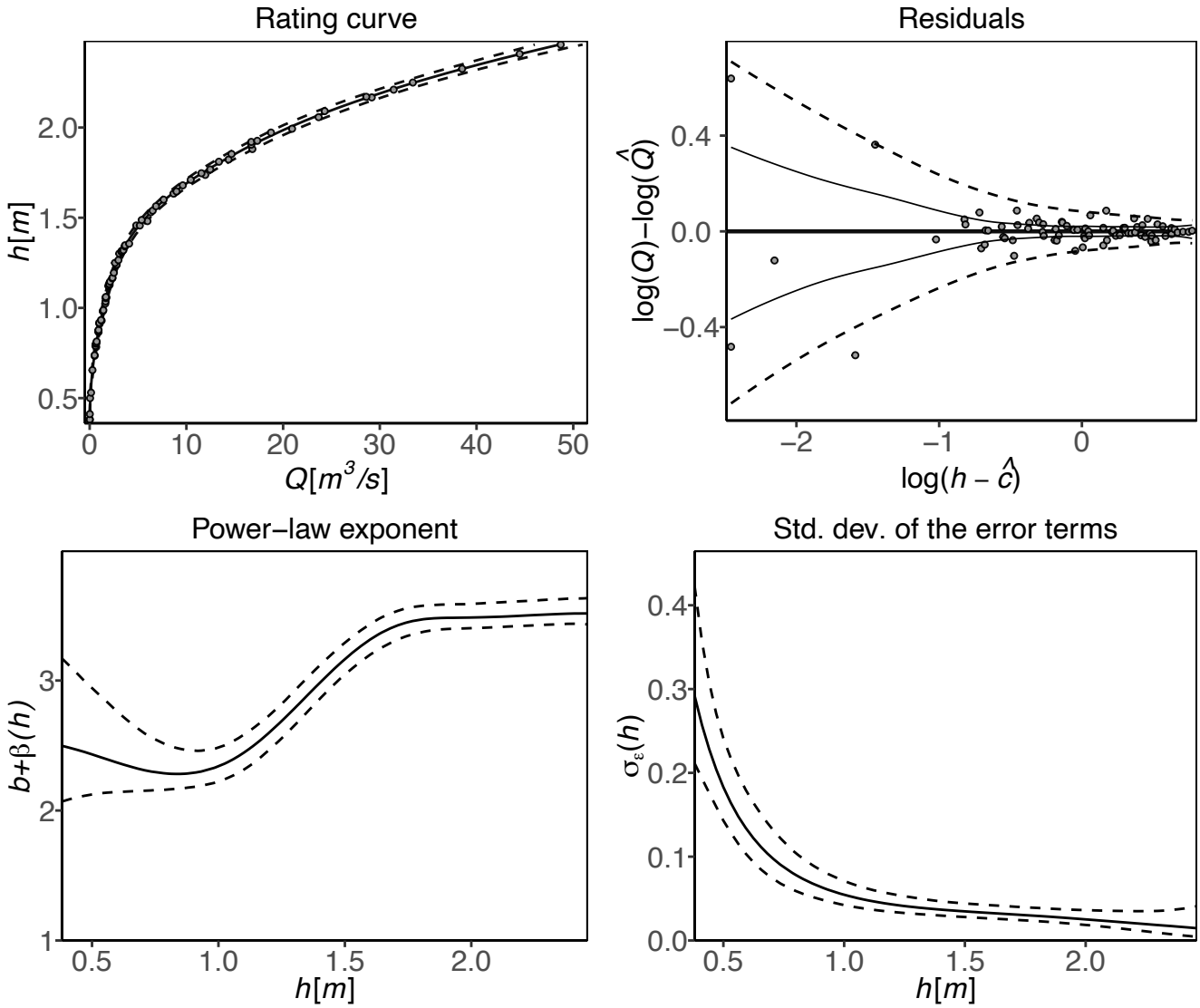
Station name:	Thule Success Dam
Location:	California, USA
Station number:	11204900
Number of observations:	78
Start date:	1980–01–23
End date:	1988–10–18
Max. discharge (m^3/s):	48.7
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	1
GPLM0	182.57	0
PLM	107.06	0
PLM0	215.32	0



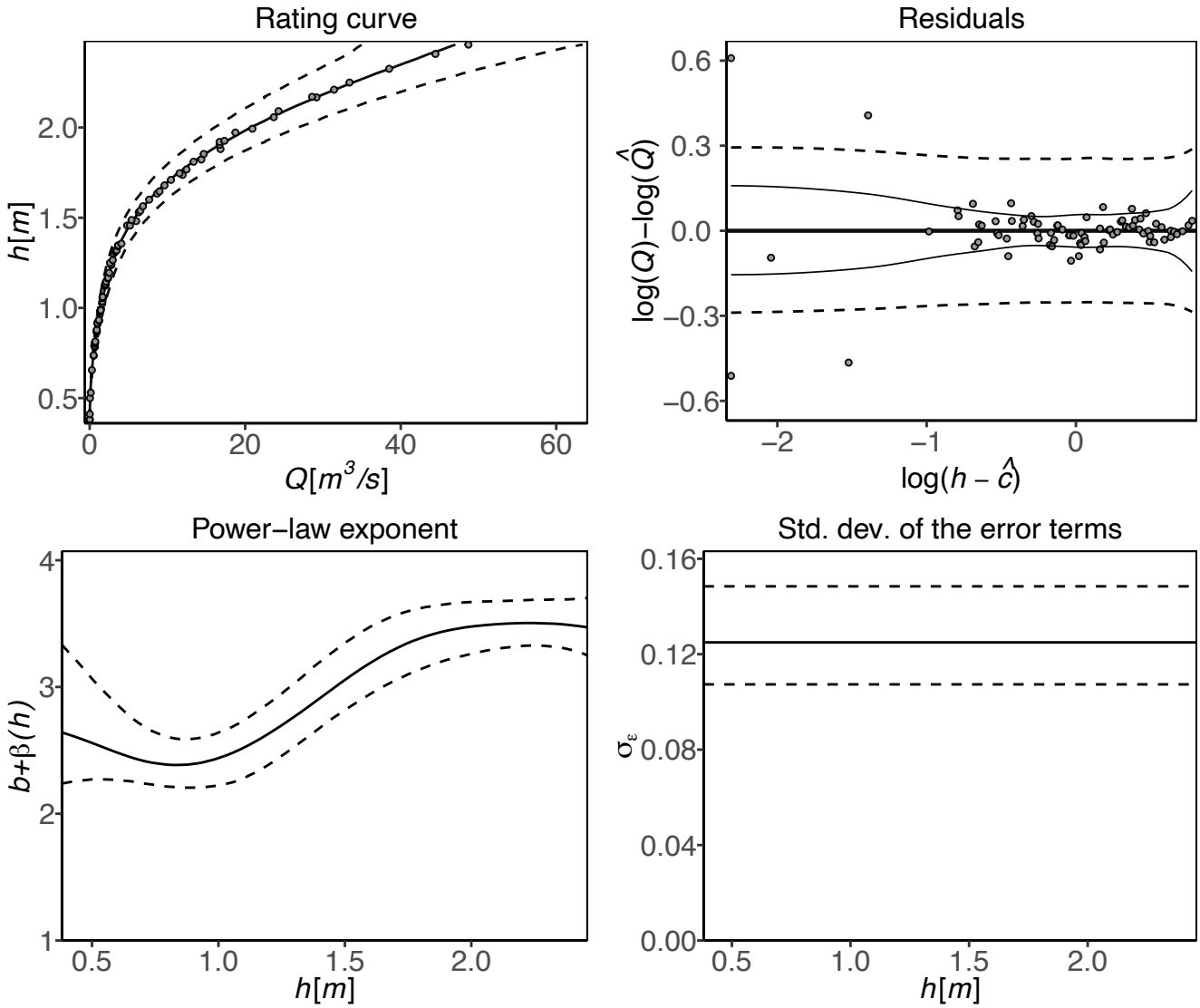


Thule Success Dam, Usa – GPLM



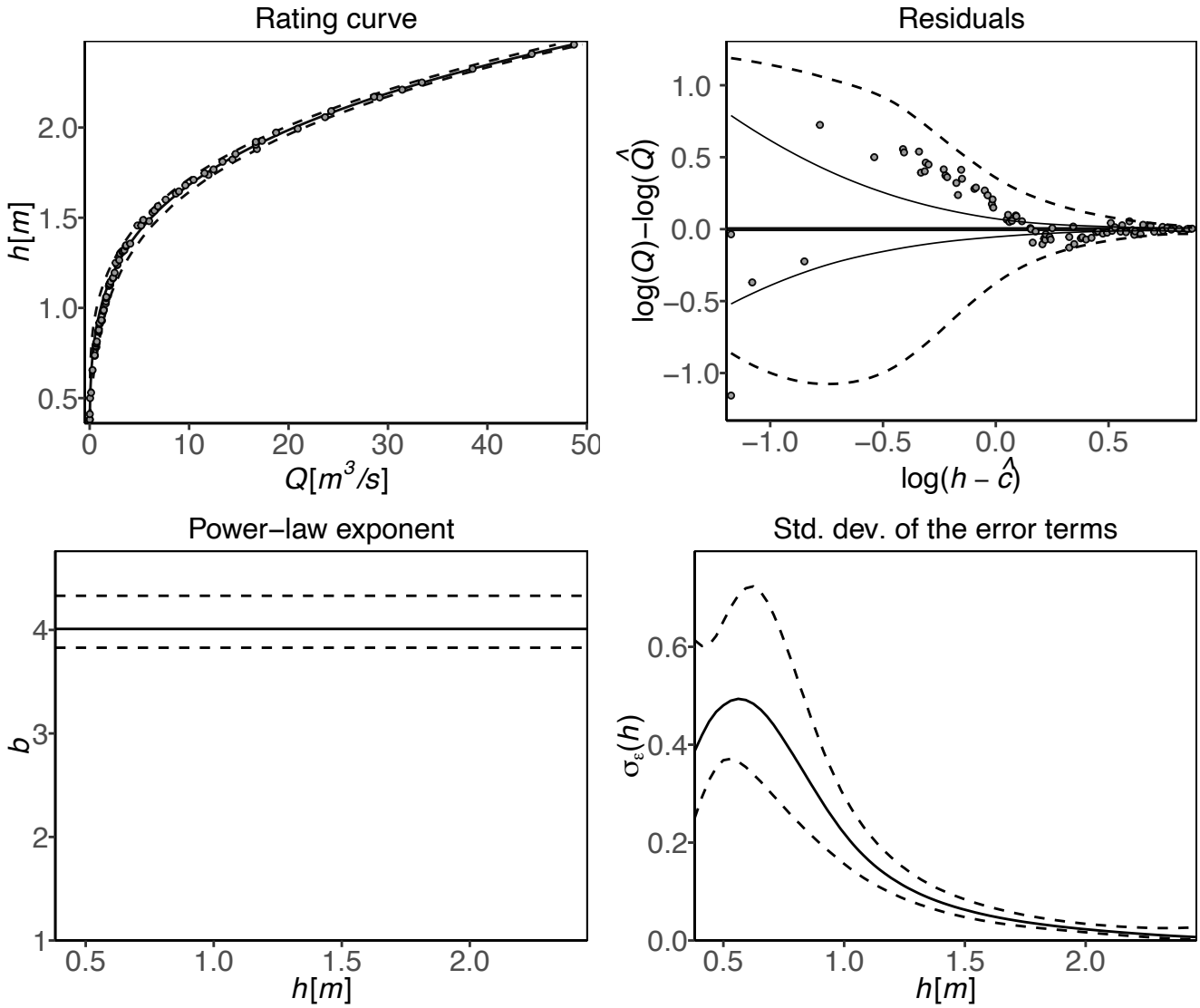
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.22	[2.60; 3.61]	2301	1.00
b	1.84	[1.83; 1.84]	11074	1.00
c	0.30	[0.22; 0.34]	2232	1.00
σ_β	0.82	[0.53; 1.42]	2325	1.00
ϕ_β	1.05	[0.70; 1.58]	2135	1.00
σ_η	0.98	[0.66; 1.49]	2005	1.00
η_1	–2.46	[–3.11; –1.72]	2257	1.00
η_2	–4.45	[–5.83; –3.27]	1943	1.00
η_3	–6.49	[–8.33; –5.04]	2135	1.00
η_4	–6.97	[–9.37; –5.01]	2043	1.00
η_5	–7.78	[–10.43; –5.78]	2253	1.00
η_6	–8.55	[–11.53; –5.98]	2340	1.00

Thule Success Dam, Usa – GPLM0



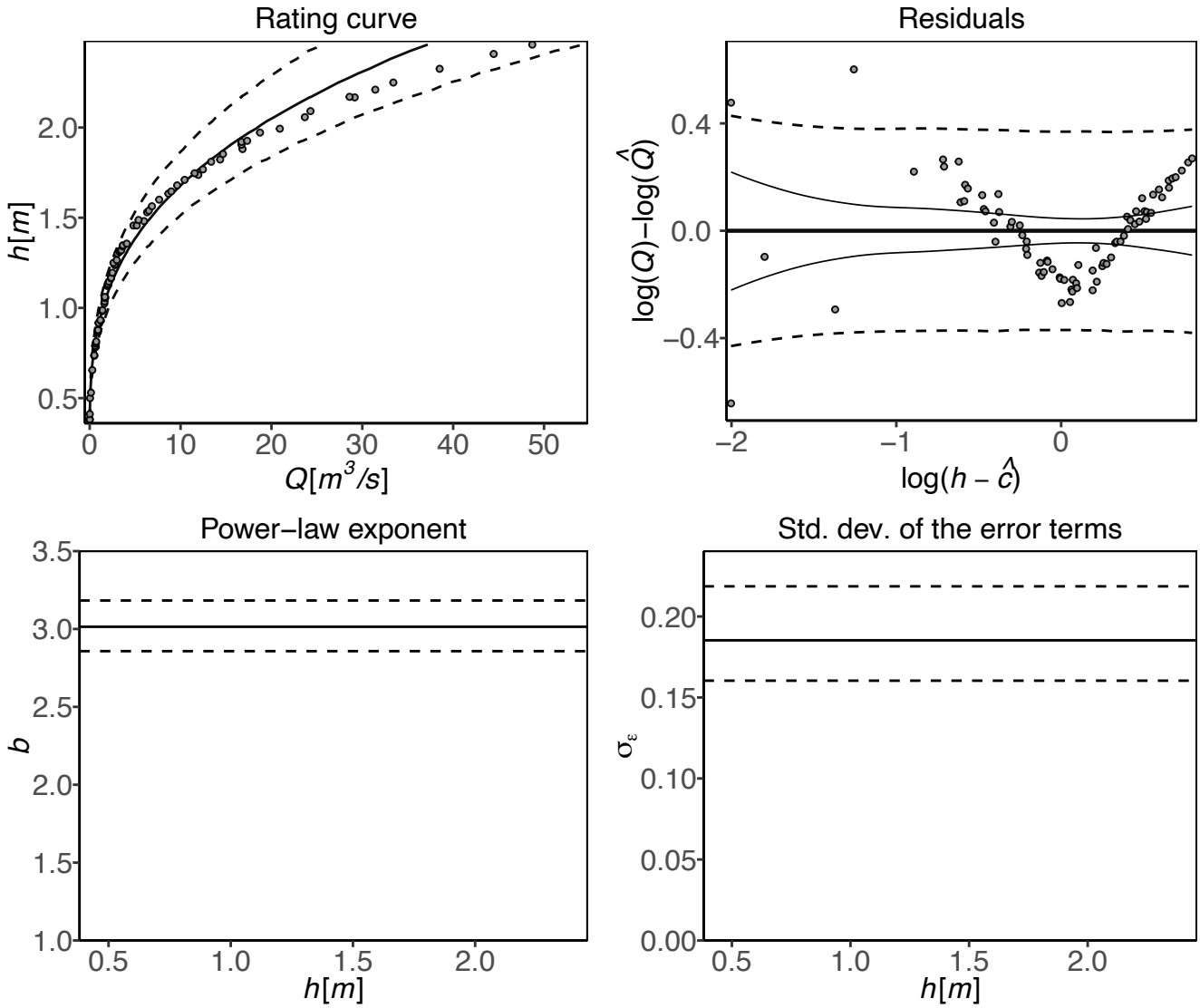
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.17	[2.55; 3.62]	5190	1.00
b	1.84	[1.83; 1.84]	14120	1.00
c	0.28	[0.21; 0.32]	4803	1.00
σ_ε	0.12	[0.11; 0.15]	5050	1.00
σ_β	0.91	[0.71; 1.20]	5695	1.00
ϕ_β	1.10	[0.62; 2.04]	4094	1.00

Thule Success Dam, Usa – PLM



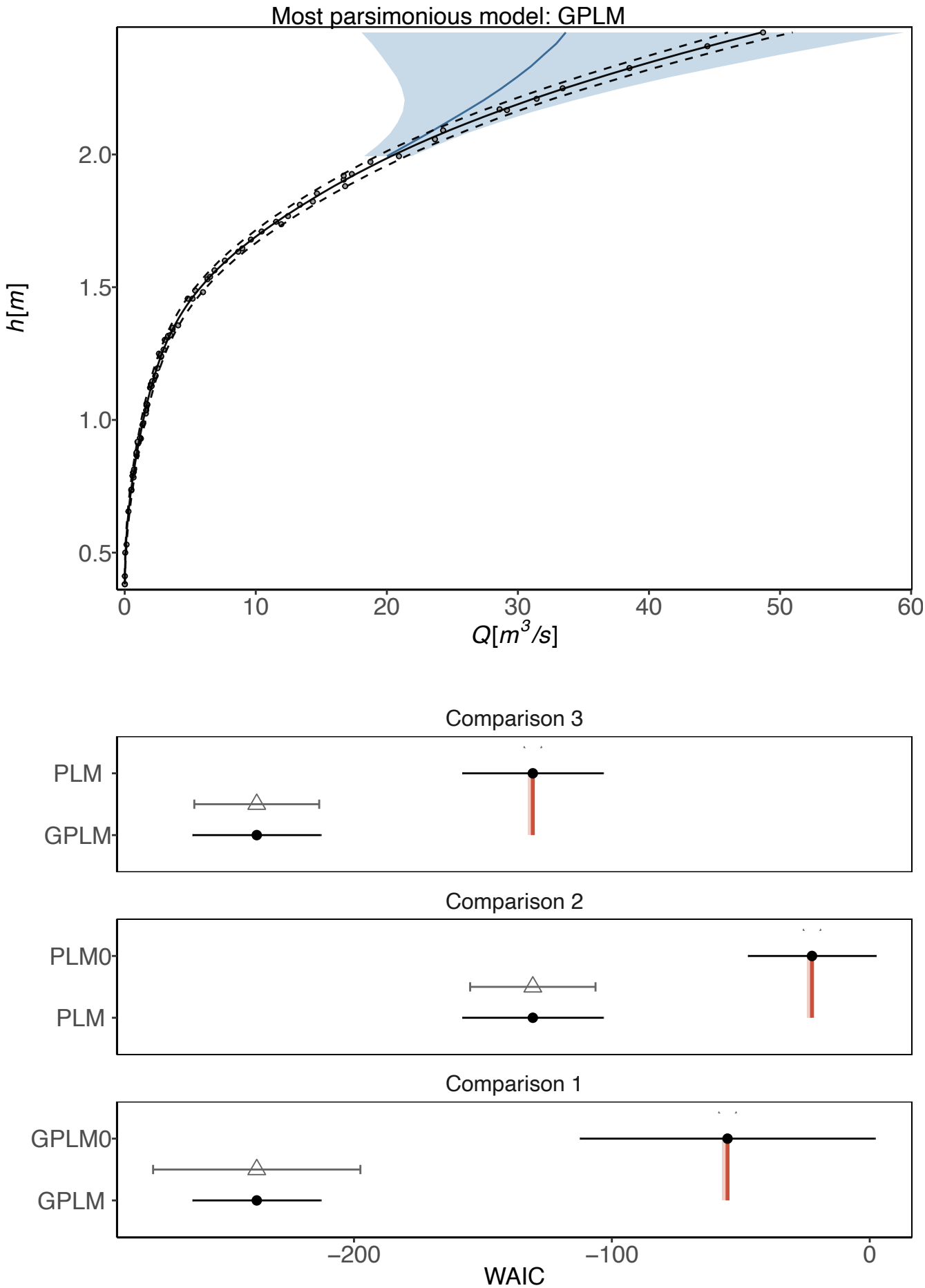
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	1.48	[0.87; 1.90]	1500	1.01
b	4.01	[3.83; 4.33]	1595	1.01
c	0.07	[–0.08; 0.14]	1539	1.01
σ_η	1.38	[0.94; 2.04]	1609	1.01
η_1	–1.90	[–2.77; –0.98]	1850	1.00
η_2	–0.98	[–1.94; –0.10]	1474	1.01
η_3	–3.29	[–4.25; –2.48]	2322	1.00
η_4	–5.38	[–7.00; –4.08]	2198	1.00
η_5	–6.60	[–8.81; –4.93]	2242	1.00
η_6	–7.73	[–10.30; –5.49]	2402	1.00

Thule Success Dam, Usa – PLM0



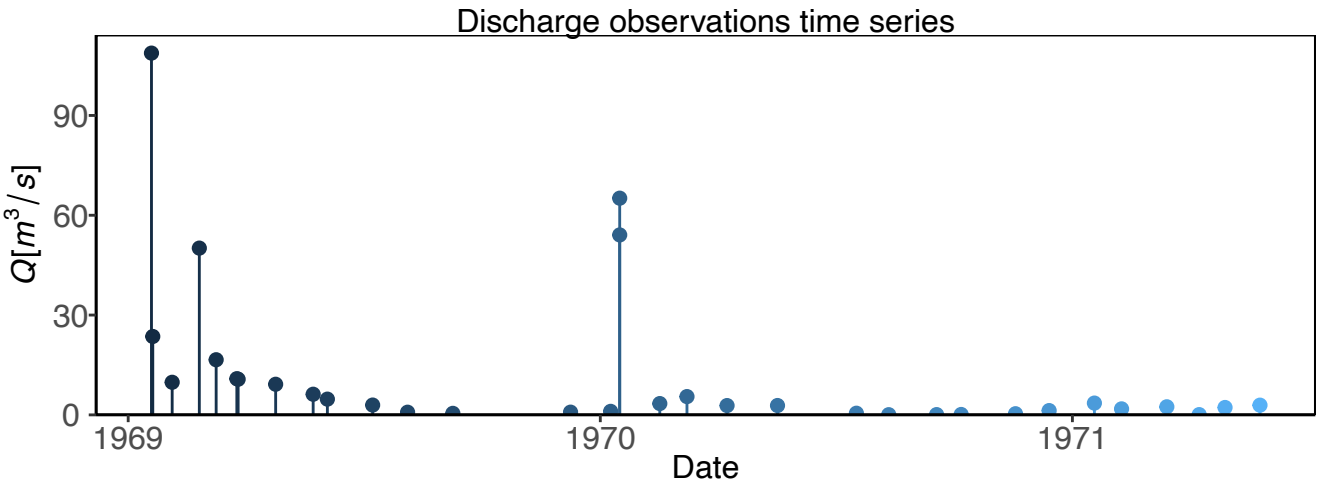
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.38	[3.02; 3.72]	10432	1.00
b	3.01	[2.86; 3.18]	10492	1.00
c	0.25	[0.22; 0.27]	9657	1.00
σ_ε	0.19	[0.16; 0.22]	9009	1.00

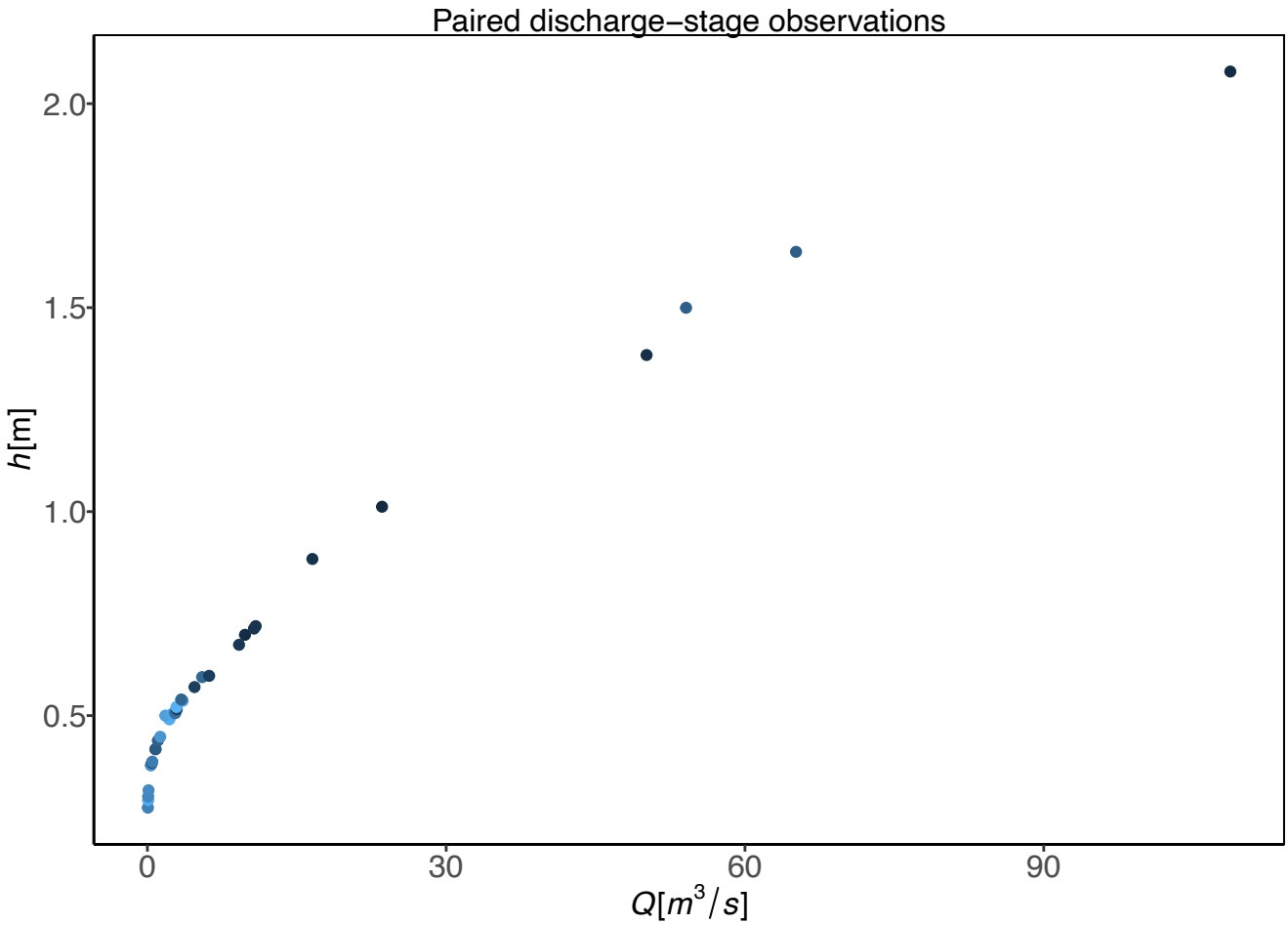
Power−law tournament results for Thule Success Dam, Usa



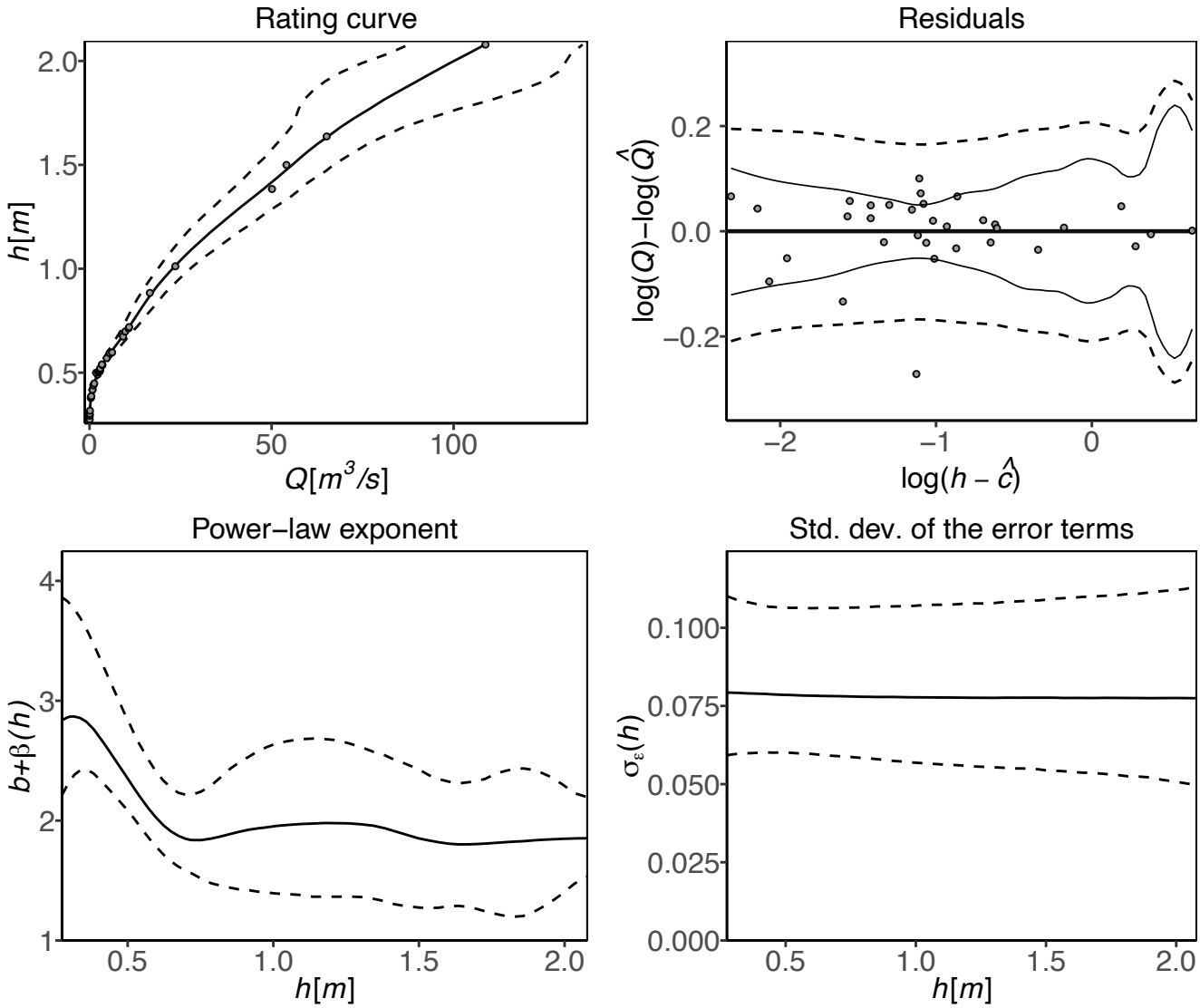
Station name:	Fresno
Location:	California, USA
Station number:	11257500
Number of observations:	33
Start date:	1969–01–19
End date:	1971–05–26
Max. discharge (m^3/s):	108.7
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.28	0.46
GPLM0	0.00	0.54
PLM	72.15	0.00
PLM0	72.37	0.00



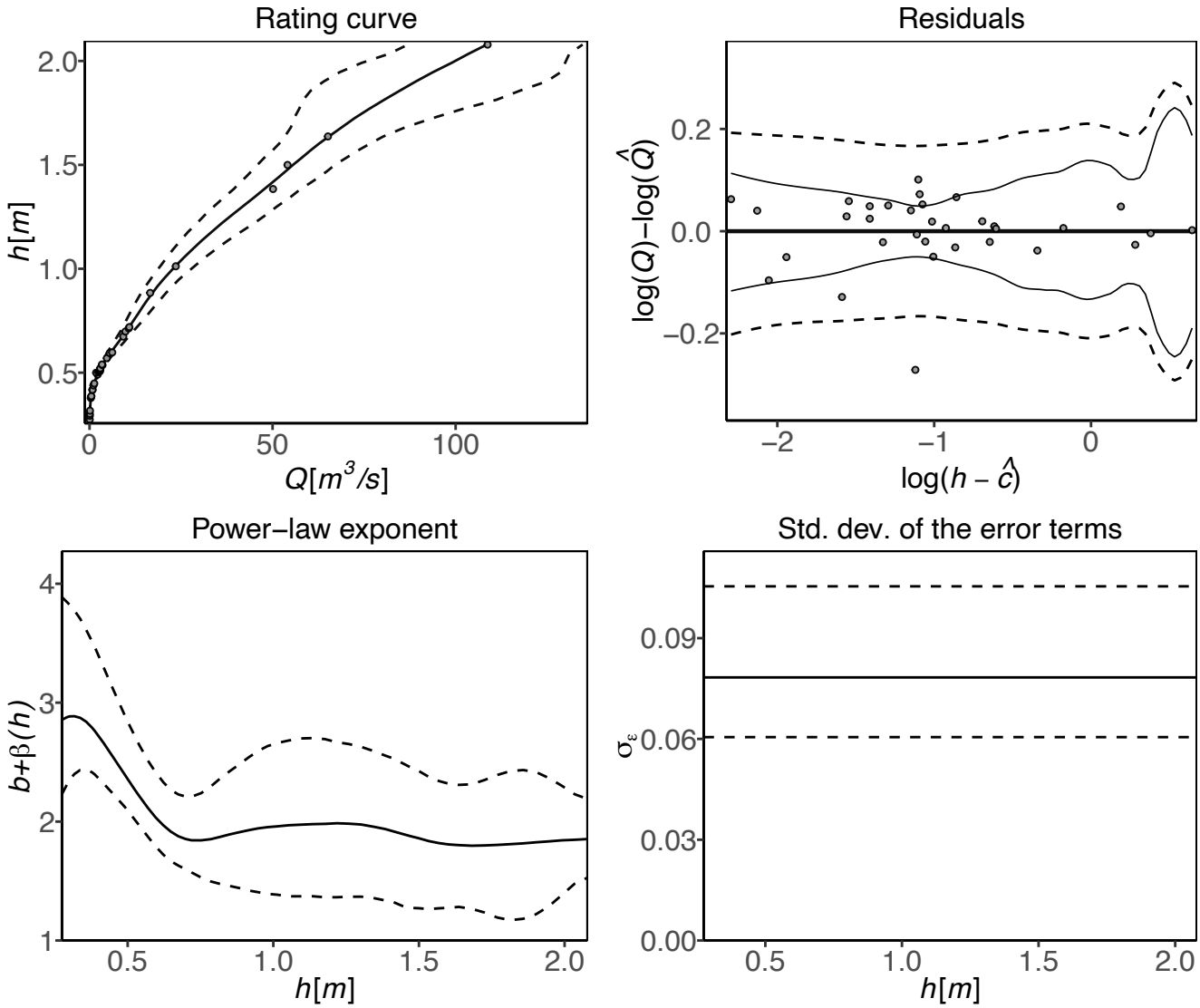


Fresno, Usa – GPLM



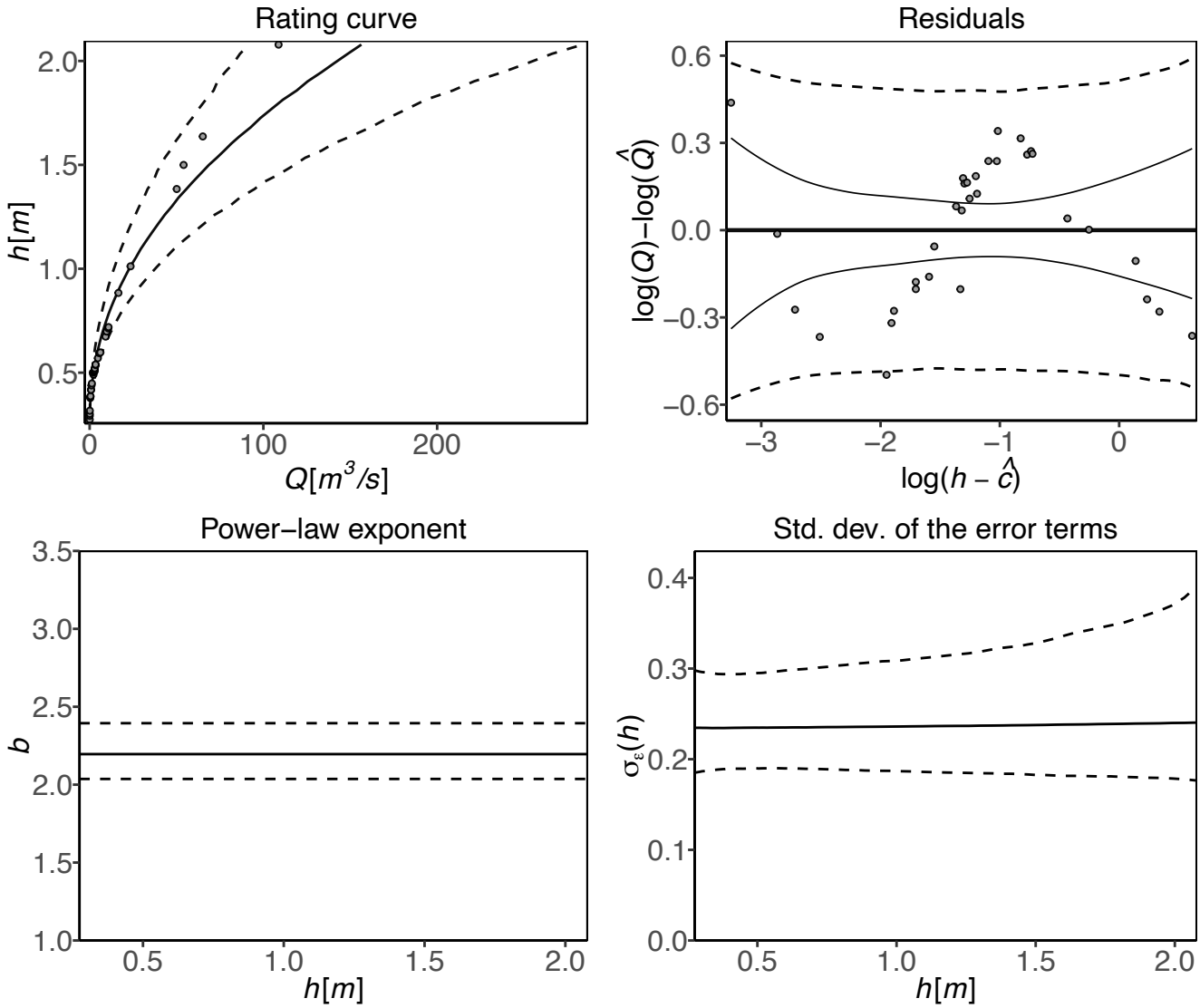
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	33.06	[26.02; 39.06]	3476	1.00
b	1.84	[1.83; 1.84]	10401	1.00
c	0.18	[0.08; 0.23]	2153	1.00
σ_β	0.48	[0.24; 1.01]	2356	1.00
ϕ_β	0.30	[0.15; 0.58]	2501	1.00
σ_η	0.08	[0.00; 0.42]	1380	1.00
η_1	–5.07	[–5.65; –4.41]	1971	1.00
η_2	–5.14	[–7.05; –3.25]	2417	1.00
η_3	–5.30	[–8.05; –2.61]	2312	1.00
η_4	–5.36	[–8.74; –2.01]	2321	1.00
η_5	–5.40	[–9.30; –1.49]	2440	1.00
η_6	–5.44	[–9.74; –1.02]	2374	1.00

Fresno, Usa – GPLM0



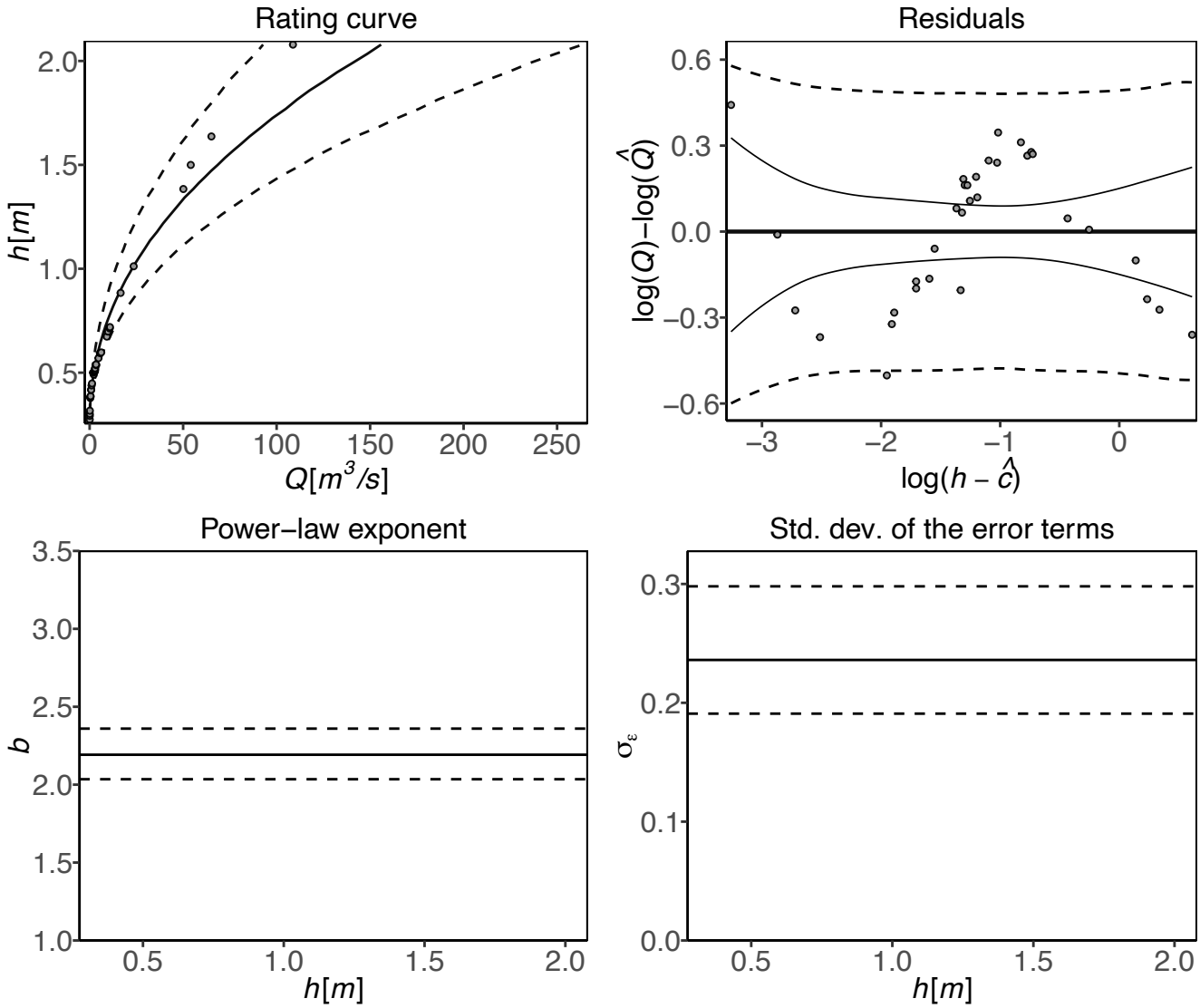
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	32.96	[26.03; 39.02]	6906	1.00
b	1.84	[1.83; 1.84]	12382	1.00
c	0.17	[0.08; 0.22]	5146	1.00
σ_ε	0.08	[0.06; 0.11]	4820	1.00
σ_β	0.70	[0.49; 1.02]	5665	1.00
ϕ_β	0.31	[0.15; 0.58]	5760	1.00

Fresno, Usa – PLM



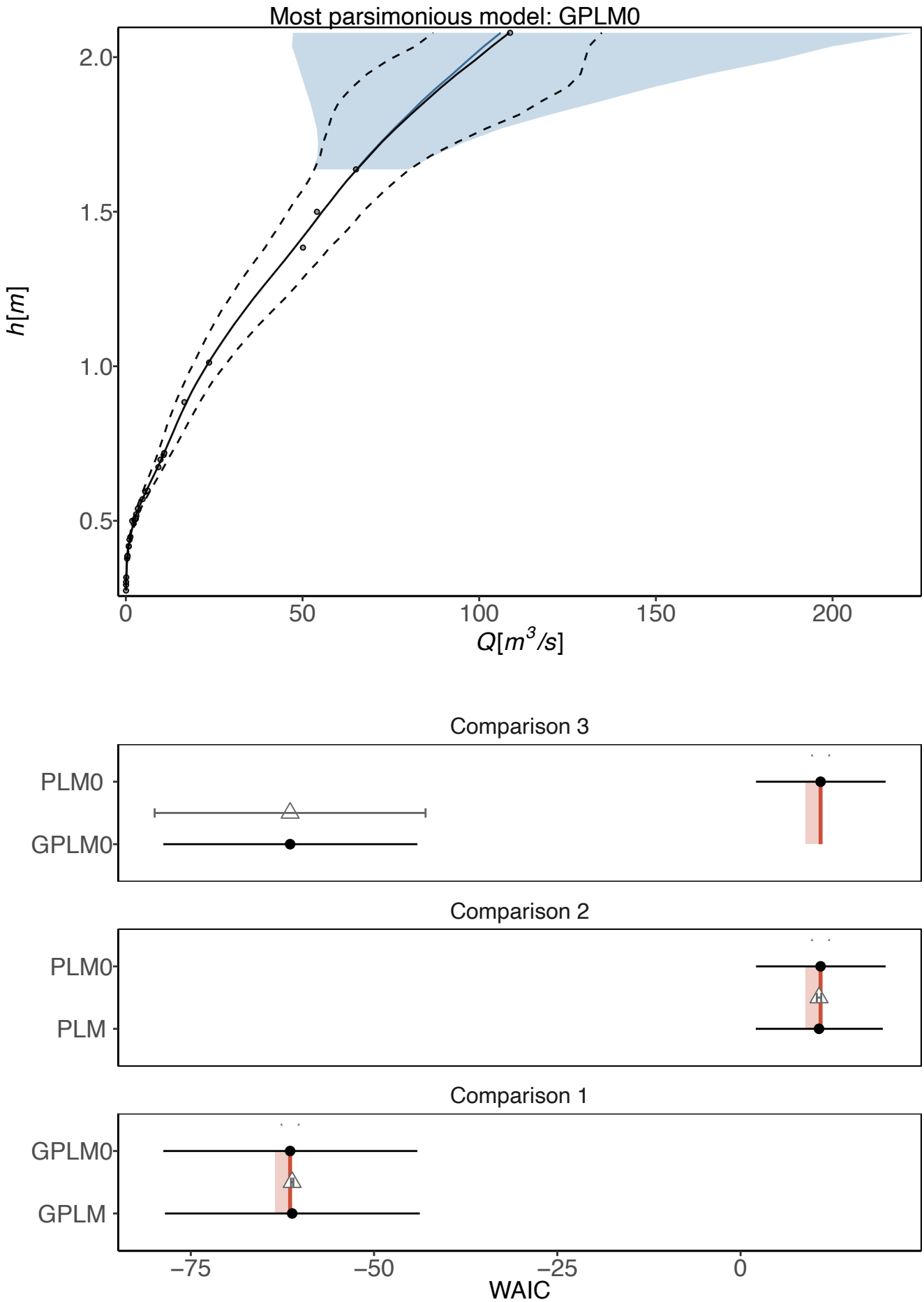
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	41.06	[35.34; 48.57]	6276	1.00
b	2.20	[2.04; 2.39]	3189	1.00
c	0.24	[0.22; 0.25]	2615	1.00
σ_η	0.09	[0.00; 0.45]	1666	1.00
η_1	–2.90	[–3.37; –2.42]	2577	1.00
η_2	–2.87	[–4.74; –0.94]	2676	1.00
η_3	–2.85	[–5.50; –0.20]	2771	1.00
η_4	–2.75	[–6.04; 0.63]	2951	1.00
η_5	–2.62	[–6.44; 1.28]	2921	1.00
η_6	–2.55	[–6.85; 1.91]	2734	1.00

Fresno, Usa – PLM0



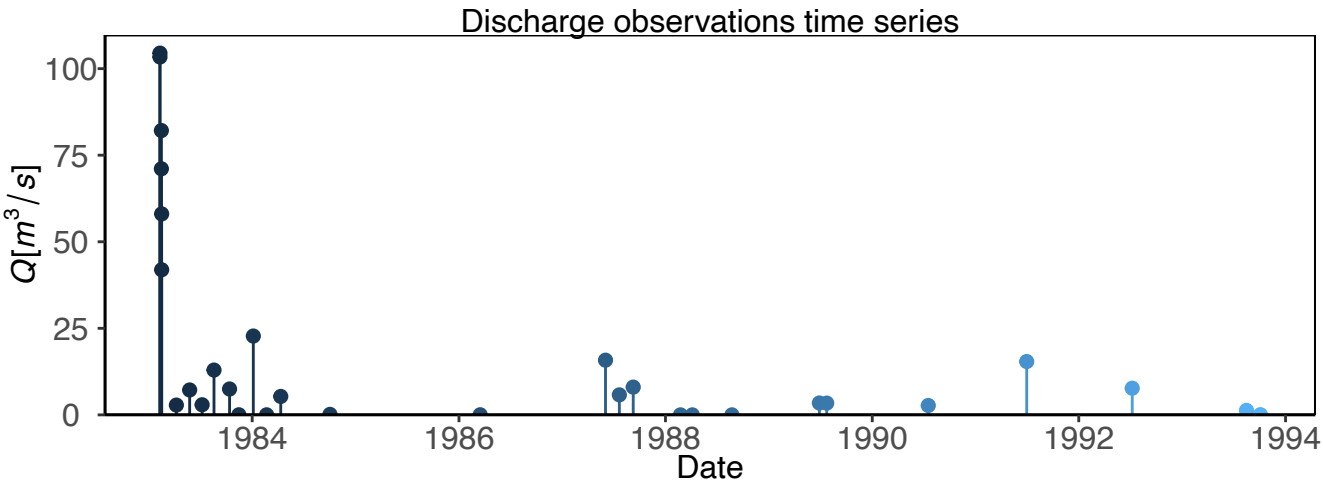
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	40.83	[35.46; 47.08]	16494	1.00
b	2.19	[2.03; 2.36]	10650	1.00
c	0.24	[0.22; 0.25]	8926	1.00
σ_ε	0.24	[0.19; 0.30]	8797	1.00

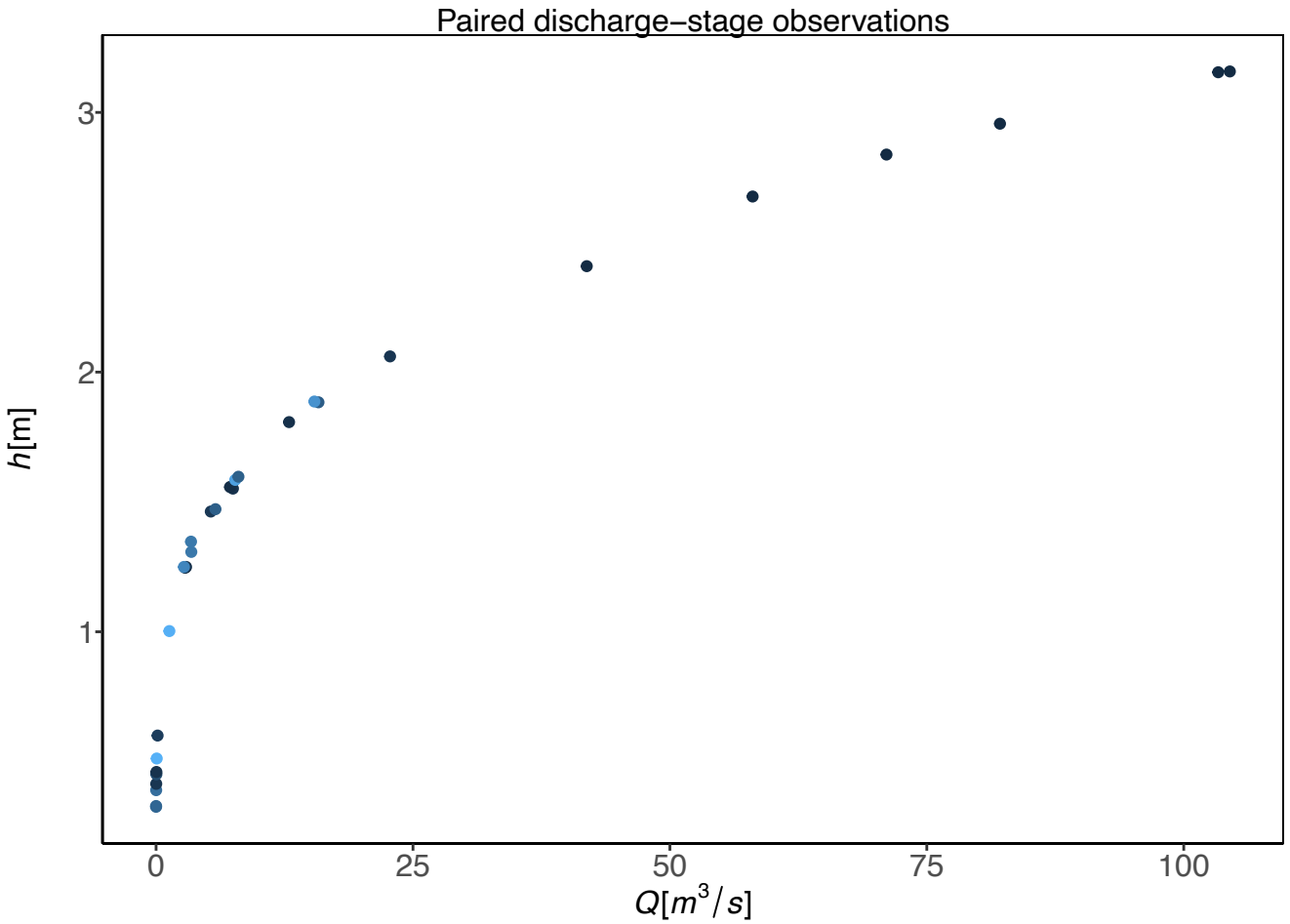
Power–law tournament results for Fresno, Usa



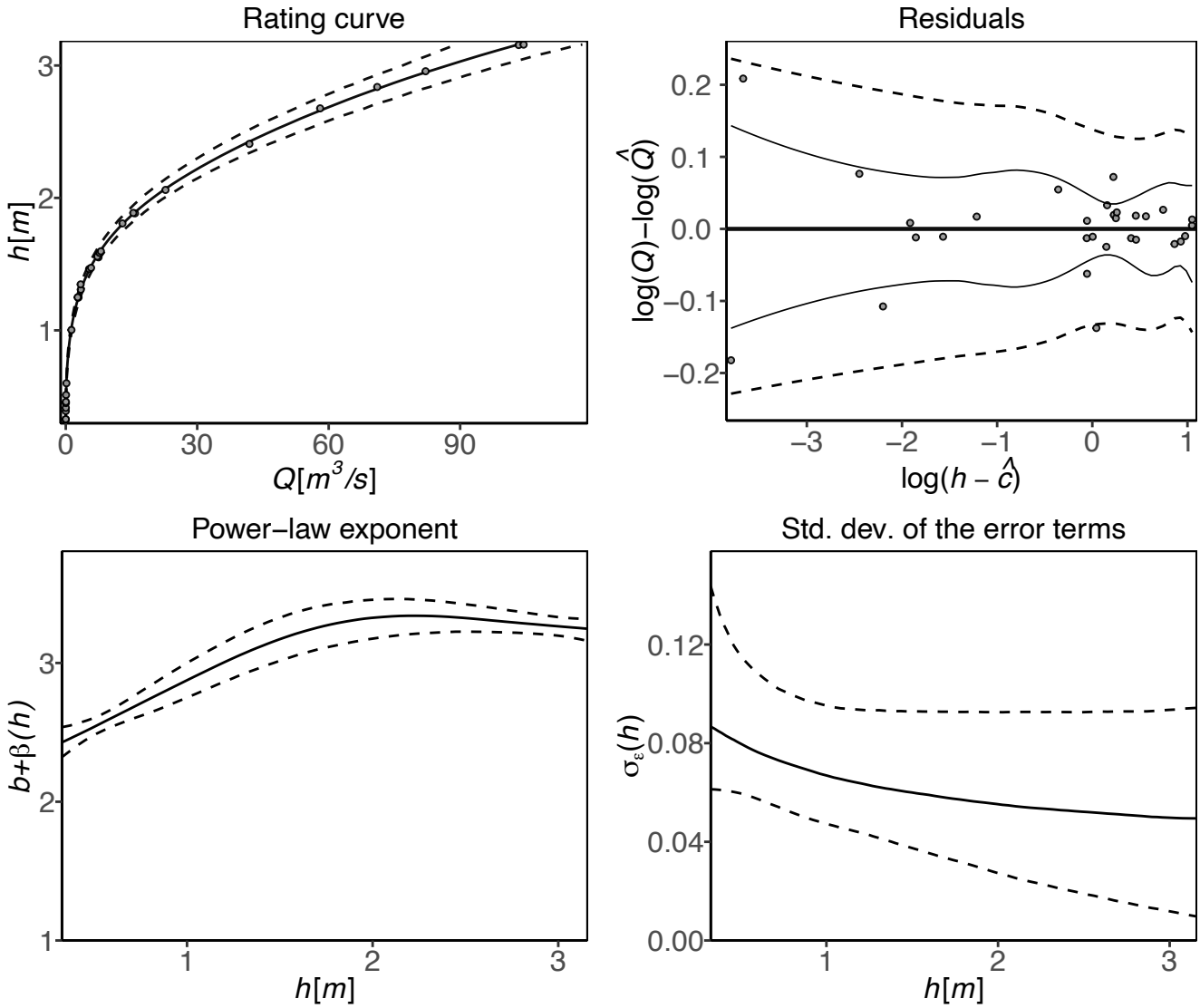
Station name:	Chowchilla
Location:	California, USA
Station number:	11259000
Number of observations:	30
Start date:	1983–02–09
End date:	1993–10–04
Max. discharge (m^3/s):	104.5
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	0.99
GPLM0	9.81	0.01
PLM	60.04	0.00
PLM0	60.02	0.00



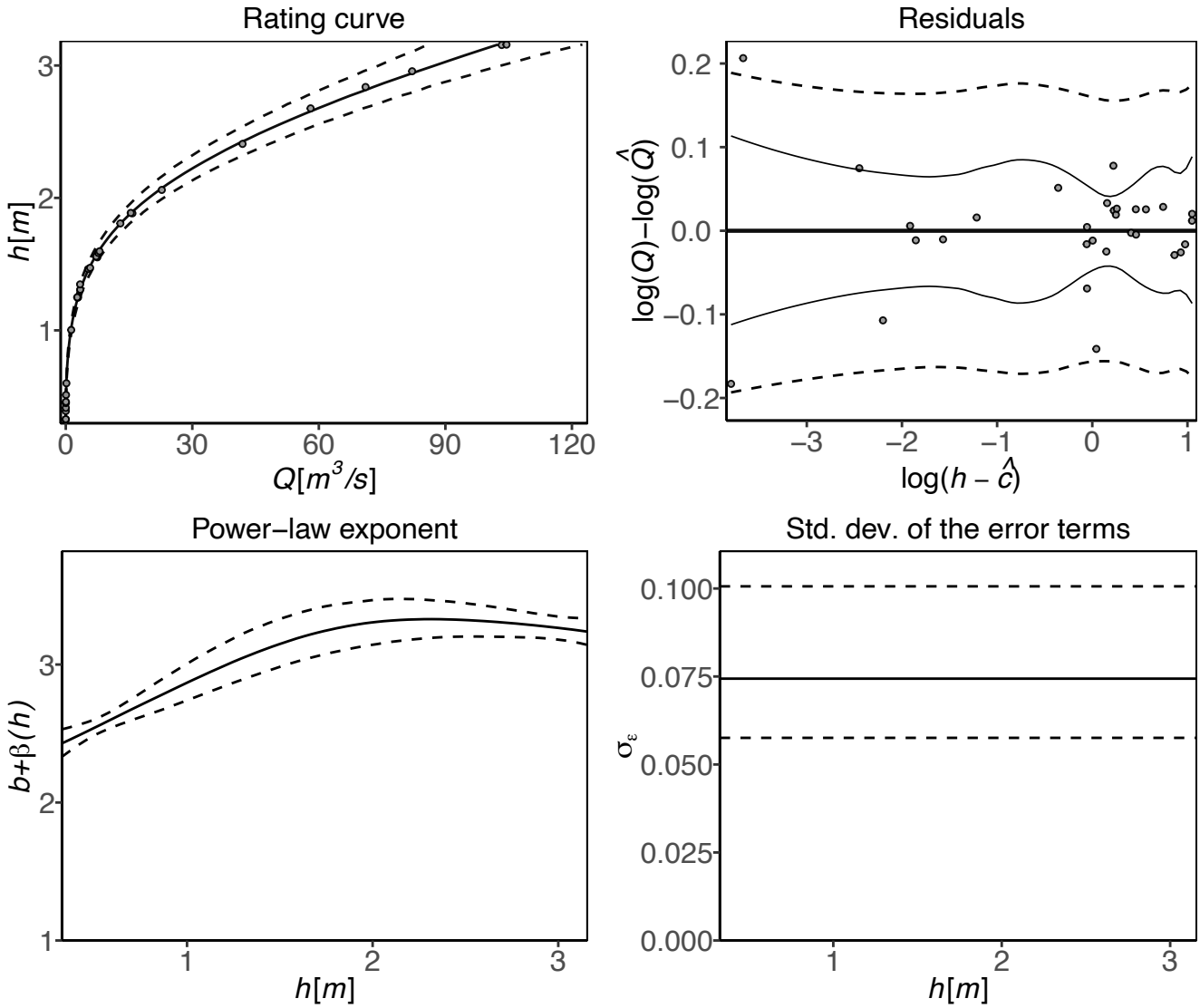


Chowchilla, Usa – GPLM



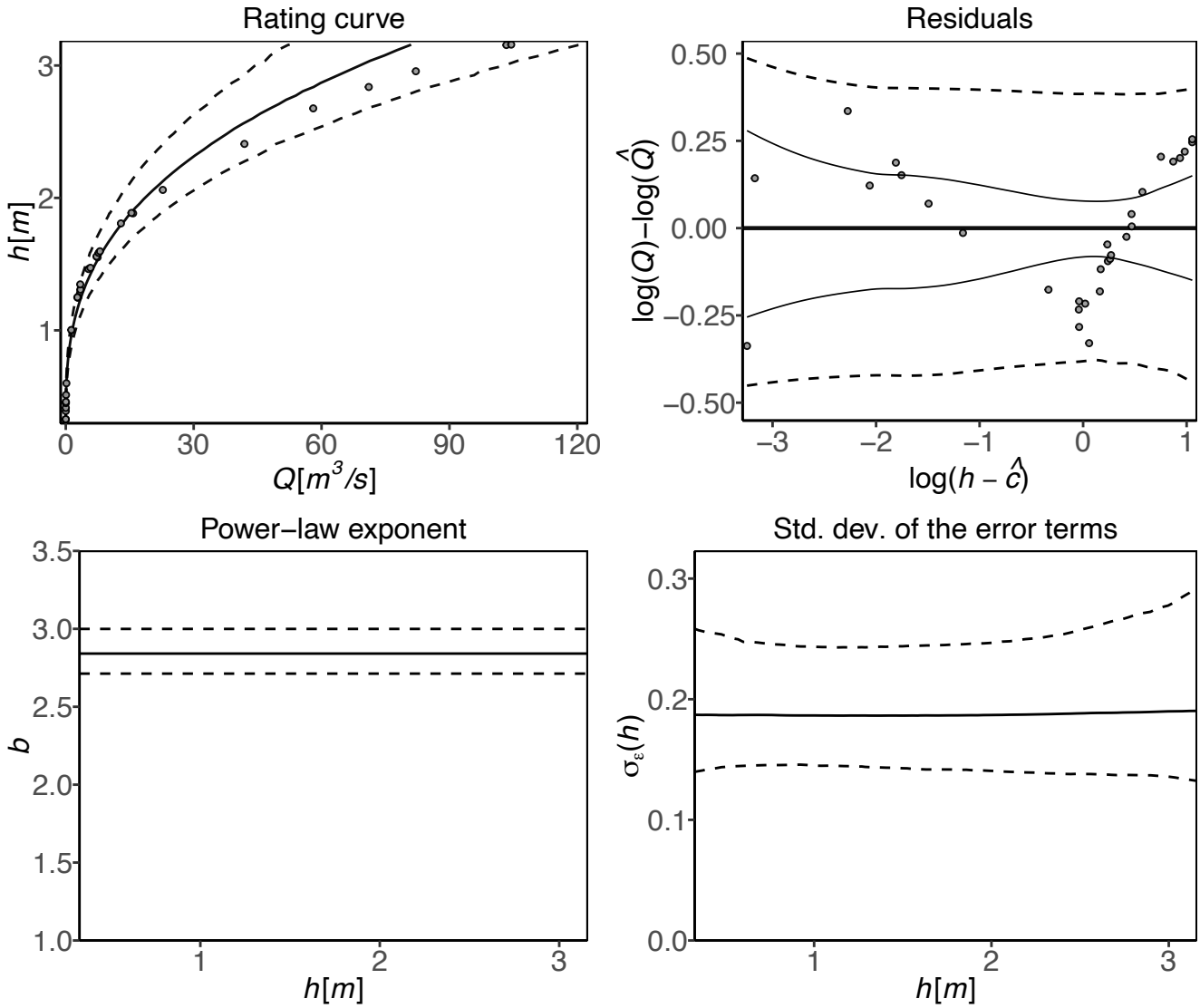
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.42	[3.28; 3.57]	6712	1.00
b	1.84	[1.83; 1.84]	10337	1.00
c	0.30	[0.30; 0.31]	1955	1.00
σ_β	0.72	[0.45; 1.30]	2306	1.00
ϕ_β	2.59	[1.35; 4.50]	1867	1.00
σ_η	0.35	[0.01; 0.95]	774	1.07
η_1	–4.89	[–5.58; –3.88]	1555	1.02
η_2	–5.69	[–7.40; –3.83]	1390	1.03
η_3	–6.51	[–8.71; –3.39]	1526	1.02
η_4	–7.38	[–10.04; –3.01]	1622	1.01
η_5	–7.88	[–11.08; –2.78]	2180	1.00
η_6	–8.11	[–11.88; –2.64]	2390	1.00

Chowchilla, Usa – GPLM0



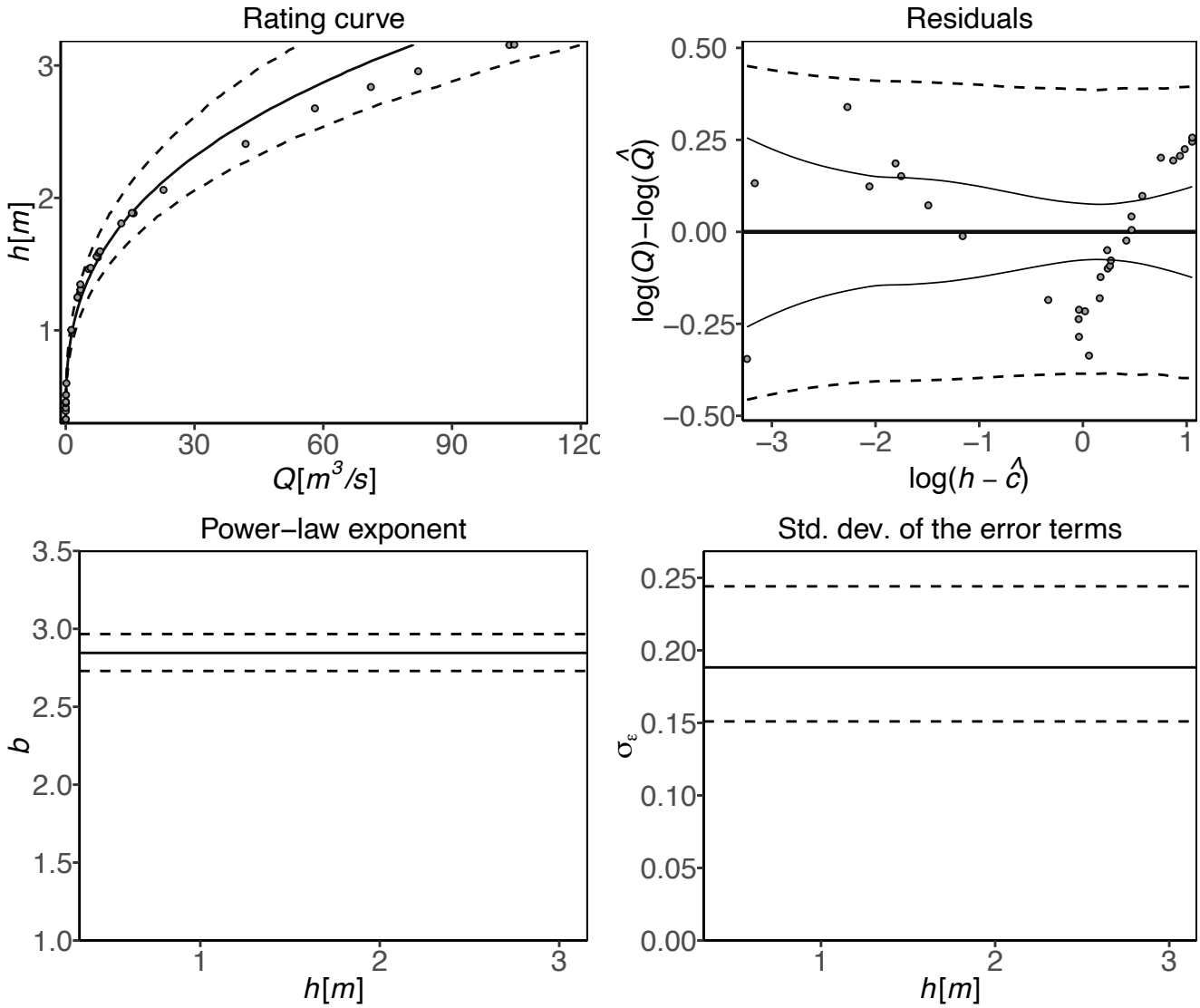
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.43	[3.27; 3.59]	11482	1.00
b	1.84	[1.83; 1.84]	13601	1.00
c	0.30	[0.30; 0.31]	4749	1.00
σ_ε	0.07	[0.06; 0.10]	4936	1.00
σ_β	0.85	[0.67; 1.14]	5647	1.00
ϕ_β	2.66	[1.39; 4.73]	4596	1.00

Chowchilla, Usa – PLM



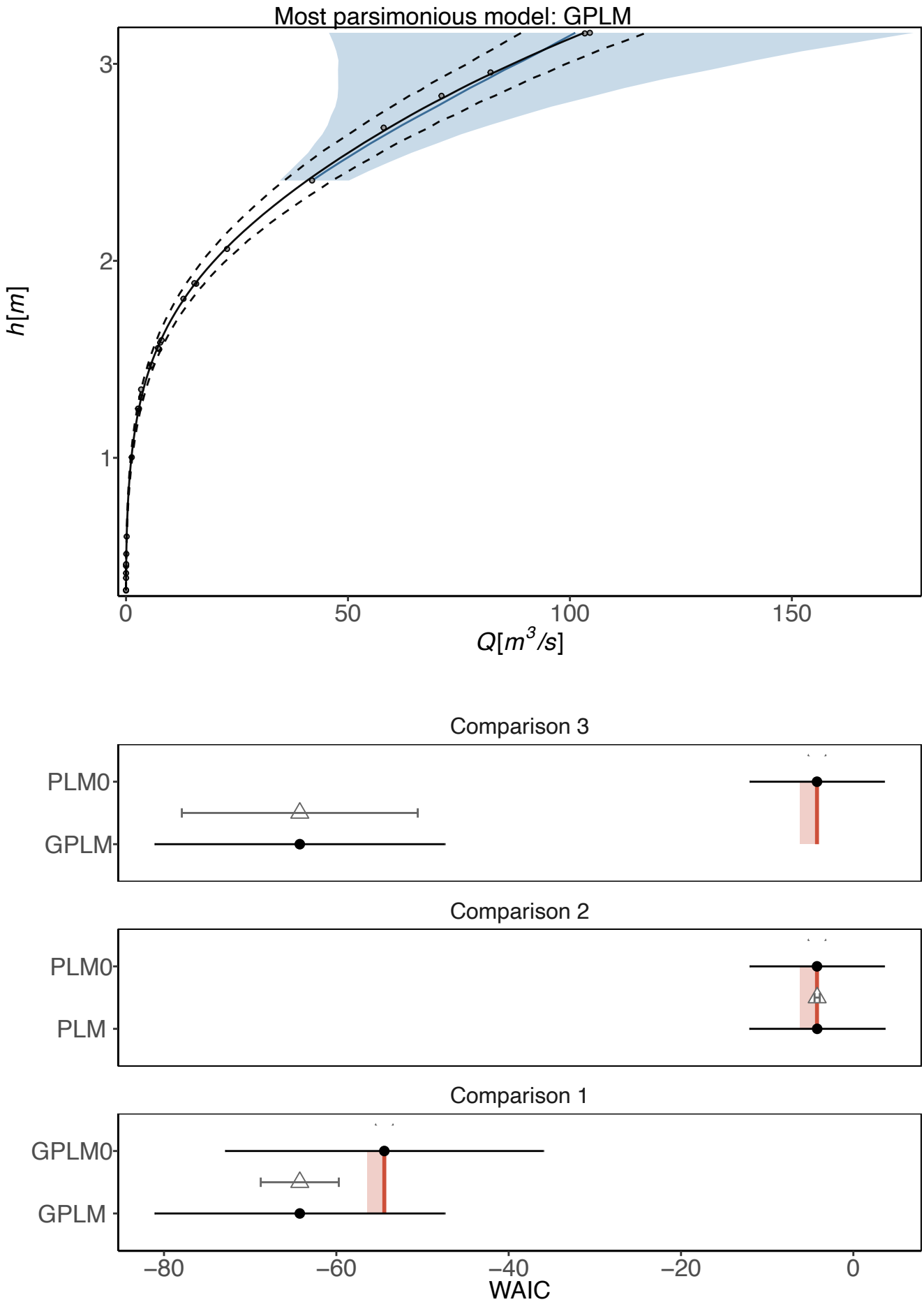
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.02	[3.64; 4.38]	2629	1.01
b	2.84	[2.71; 3.00]	1746	1.01
c	0.29	[0.28; 0.30]	1730	1.01
σ_η	0.09	[0.00; 0.51]	1570	1.00
η_1	–3.35	[–3.93; –2.71]	1686	1.01
η_2	–3.33	[–5.20; –1.47]	2603	1.00
η_3	–3.38	[–5.93; –0.76]	2654	1.00
η_4	–3.37	[–6.64; –0.11]	2532	1.00
η_5	–3.19	[–7.16; 0.65]	2723	1.00
η_6	–3.11	[–7.62; 1.12]	2699	1.00

Chowchilla, Usa – PLM0



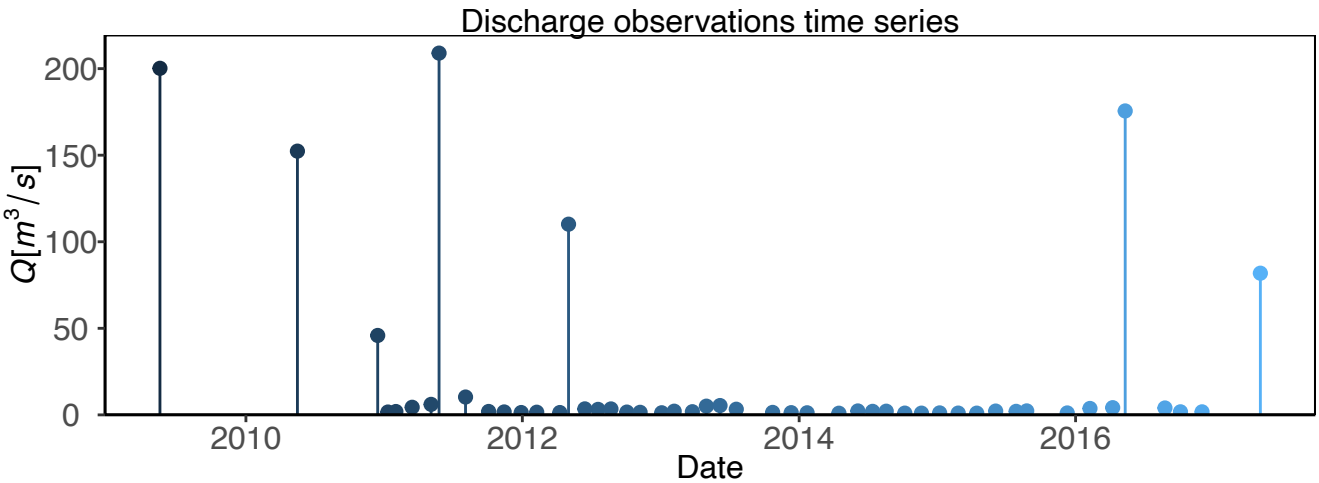
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.02	[3.68; 4.39]	12683	1.00
b	2.85	[2.73; 2.97]	10135	1.00
c	0.29	[0.28; 0.29]	9163	1.00
σ_ε	0.19	[0.15; 0.24]	8466	1.00

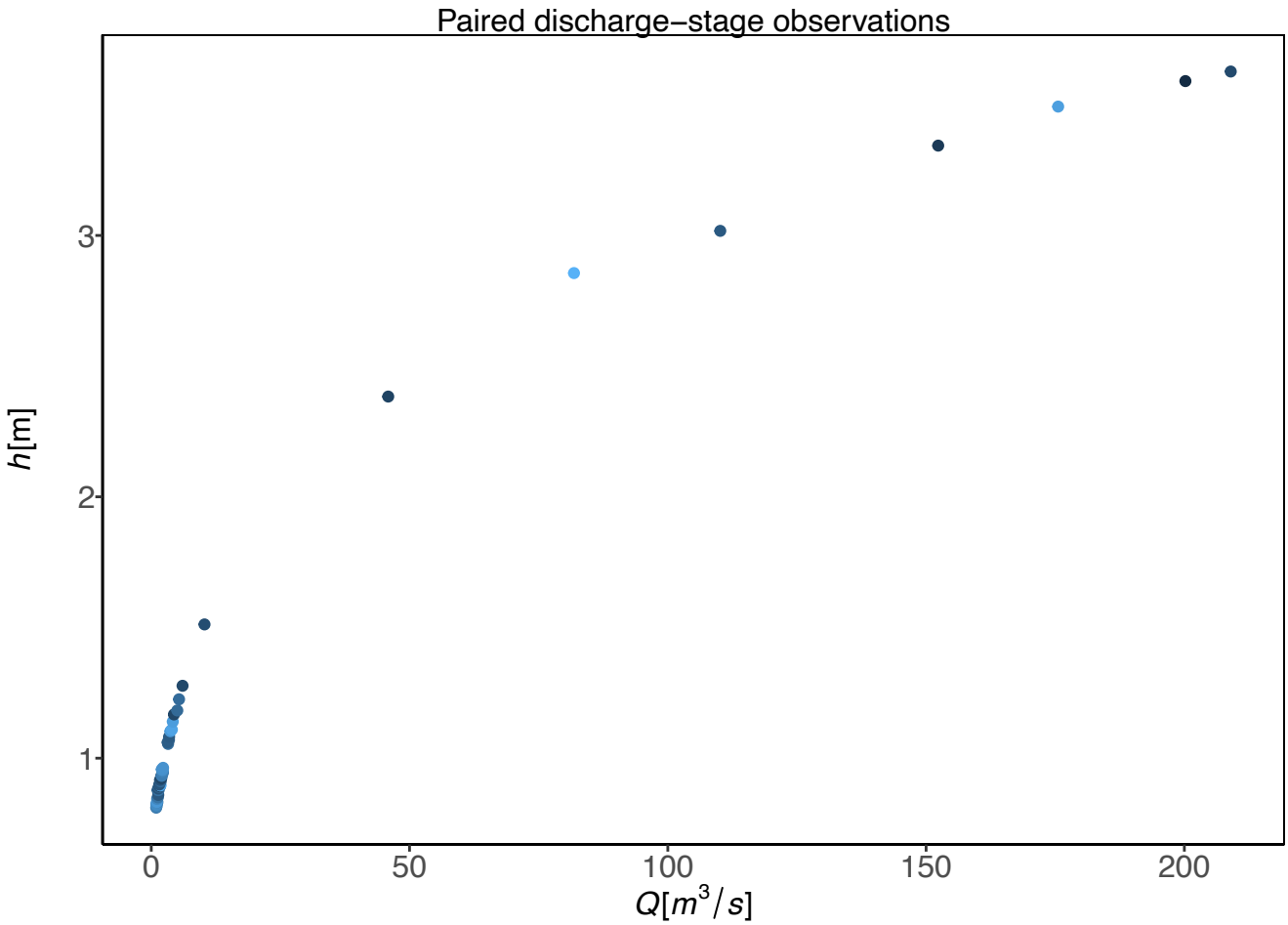
Power−law tournament results for Chowchilla, Usa



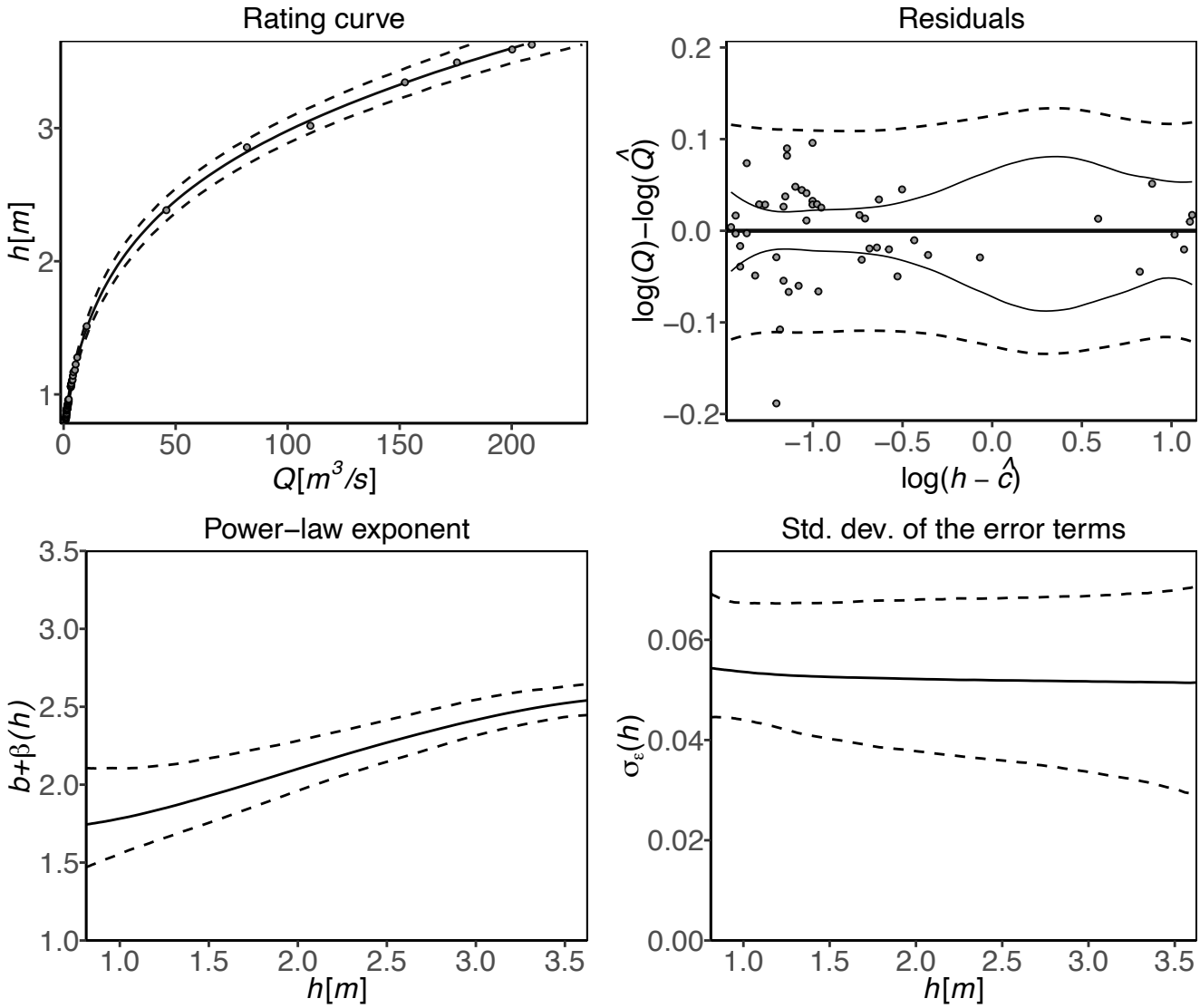
Station name:	Toulumne
Location:	California, USA
Station number:	11276500
Number of observations:	49
Start date:	2009–05–19
End date:	2017–05–03
Max. discharge (m^3/s):	209
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.53
GPLM0	0.27	0.47
PLM	26.98	0.00
PLM0	26.95	0.00



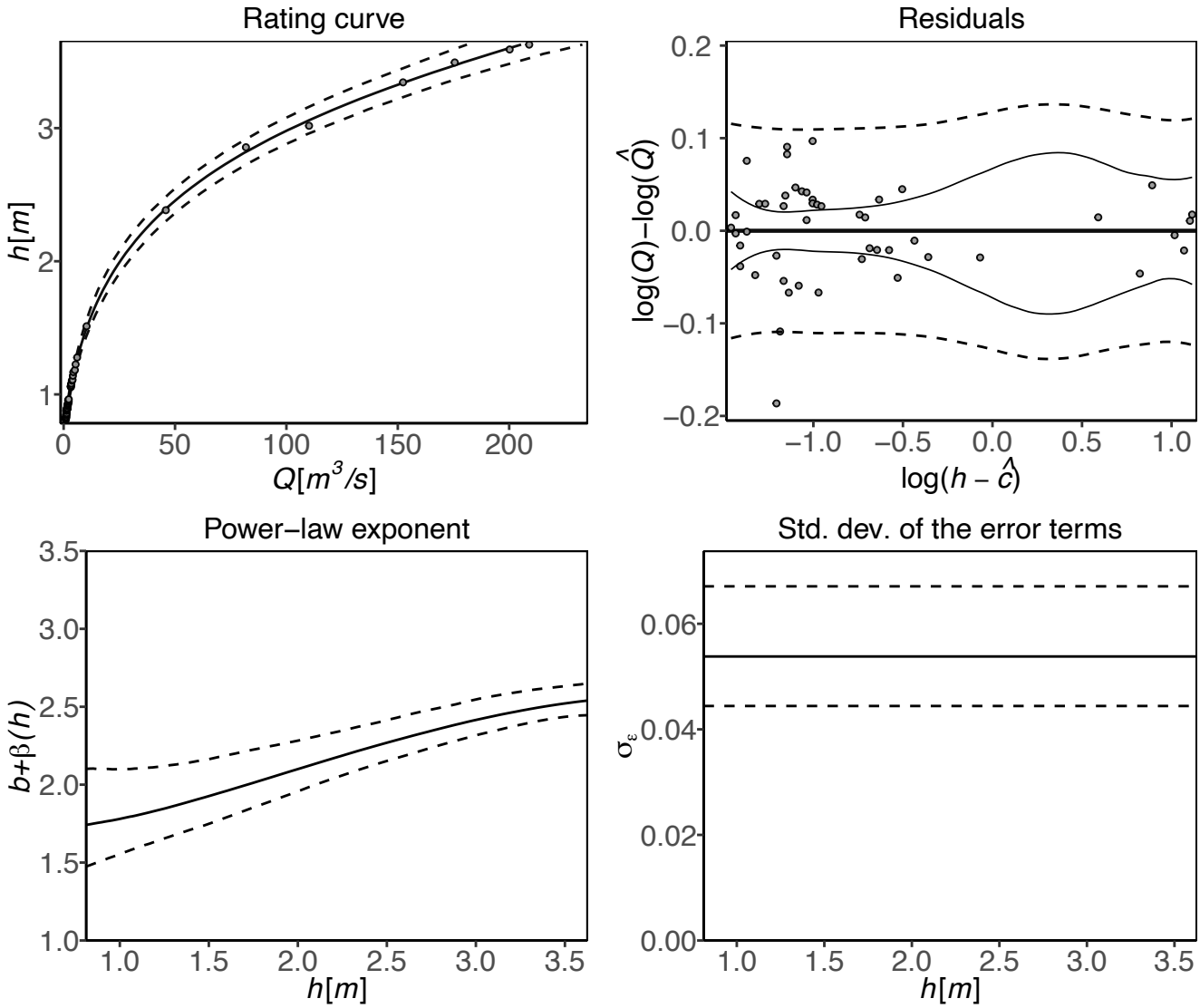


Toulumne, Usa – GPLM



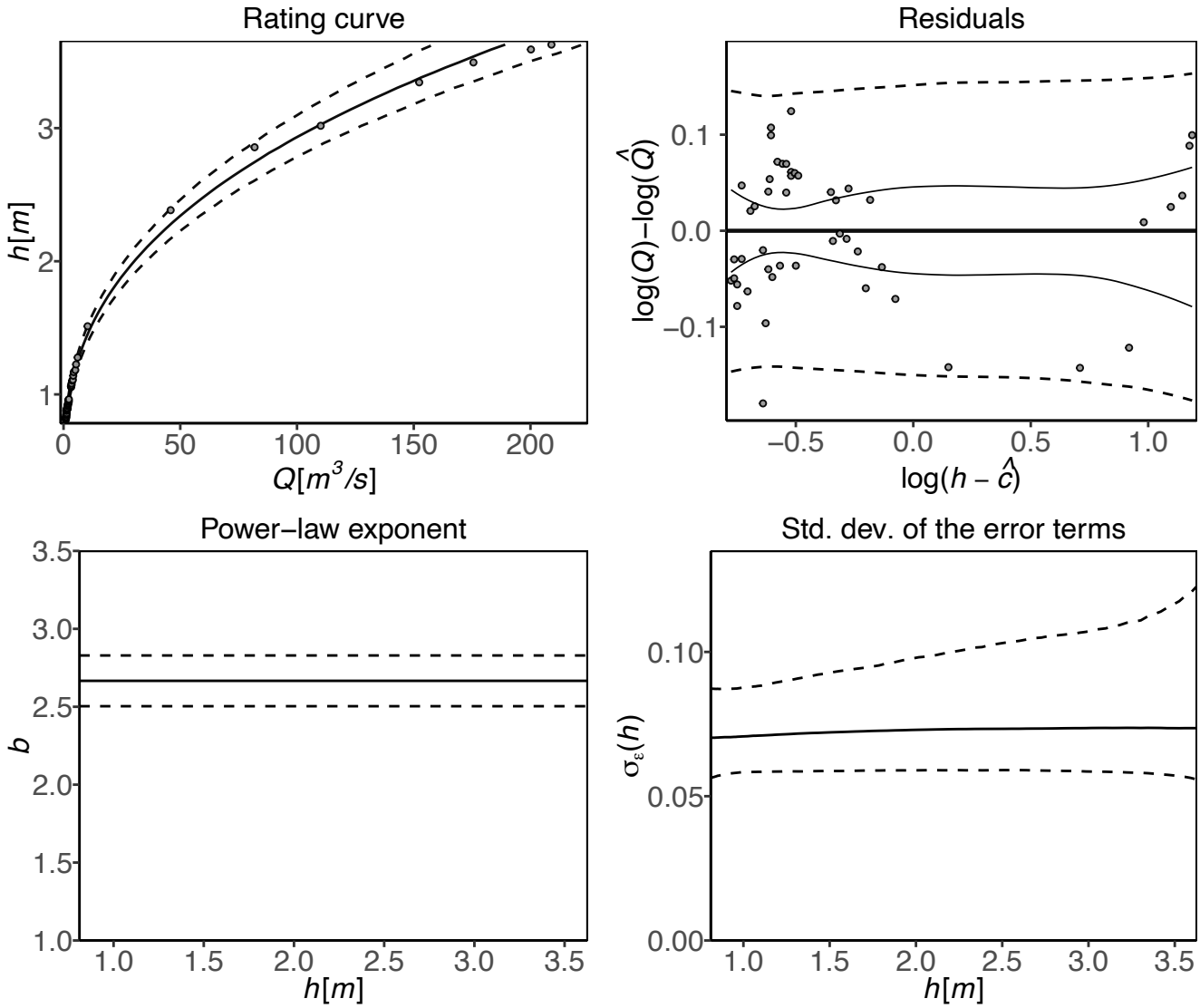
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.10	[10.09; 13.71]	2217	1.01
b	1.84	[1.83; 1.84]	10648	1.00
c	0.58	[0.48; 0.65]	1993	1.01
σ_β	0.47	[0.25; 1.02]	2381	1.00
ϕ_β	2.84	[1.06; 7.96]	2045	1.00
σ_η	0.09	[0.00; 0.49]	1772	1.00
η_1	–5.83	[–6.22; –5.34]	2138	1.00
η_2	–6.09	[–7.96; –4.09]	2500	1.00
η_3	–6.30	[–8.88; –3.45]	2311	1.00
η_4	–6.41	[–9.67; –3.11]	2395	1.00
η_5	–6.56	[–10.28; –2.66]	2435	1.00
η_6	–6.65	[–10.95; –2.29]	2403	1.00

Toulumne, Usa – GPLM0



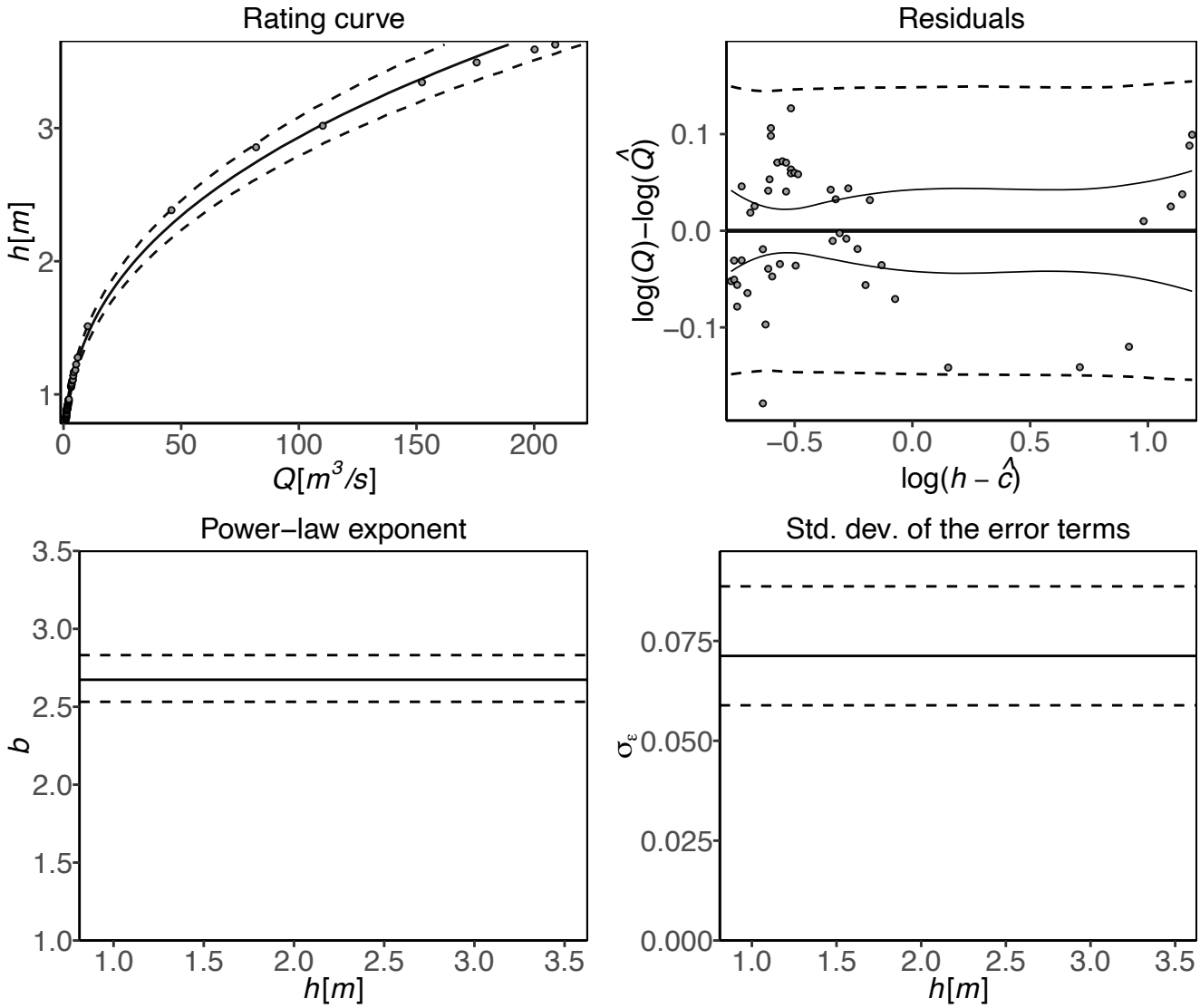
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.13	[10.12; 13.66]	5289	1.00
b	1.84	[1.83; 1.84]	12046	1.00
c	0.58	[0.48; 0.65]	4917	1.00
σ_ε	0.05	[0.04; 0.07]	5137	1.00
σ_β	0.69	[0.50; 1.01]	5909	1.00
ϕ_β	2.83	[1.10; 7.87]	4634	1.00

Toulumne, Usa – PLM



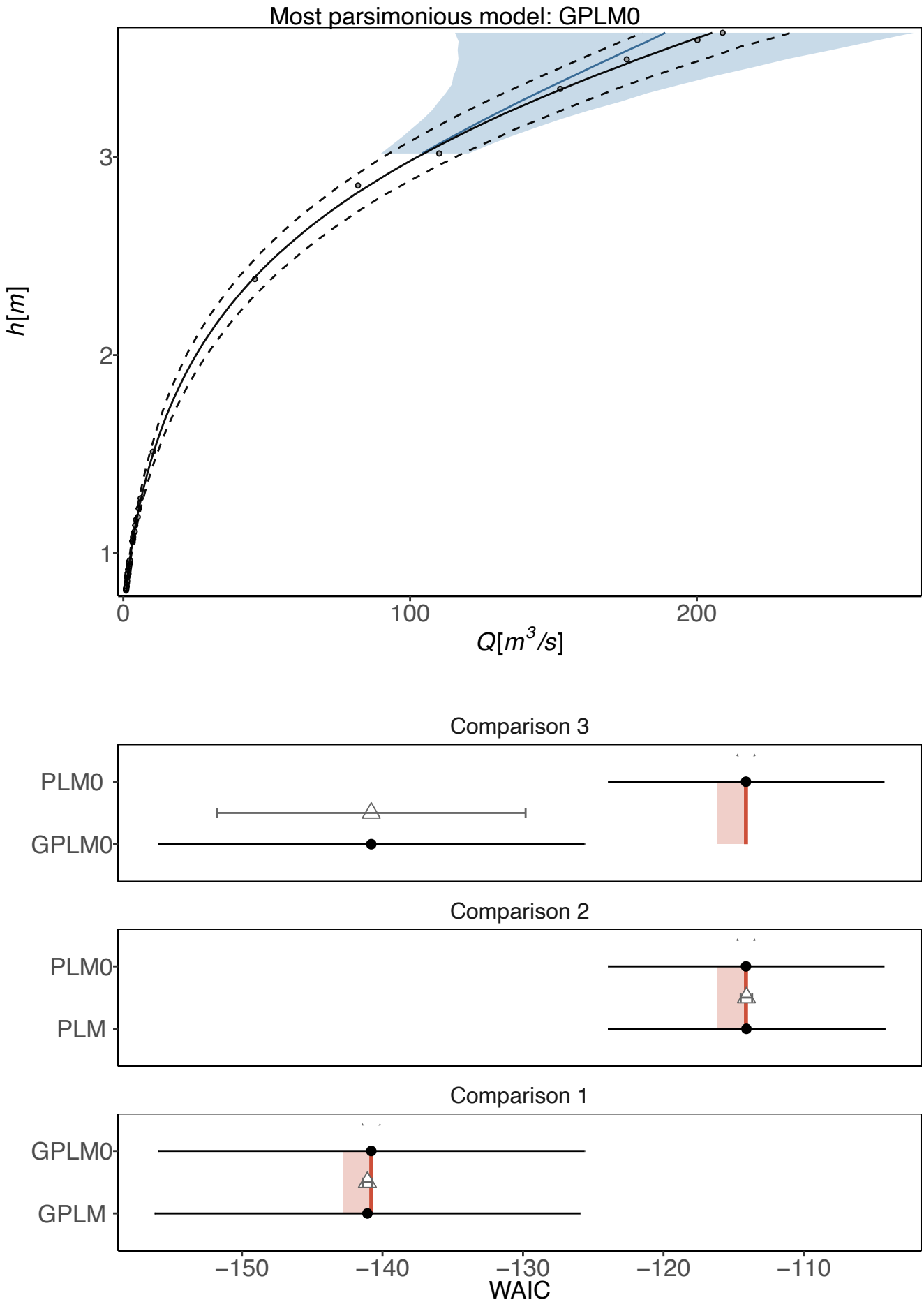
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	7.98	[6.45; 9.70]	2743	1.00
b	2.67	[2.50; 2.83]	2803	1.00
c	0.35	[0.29; 0.41]	2687	1.00
σ_η	0.09	[0.00; 0.46]	1741	1.00
η_1	–5.31	[–5.75; –4.88]	2654	1.00
η_2	–5.14	[–6.98; –3.26]	2836	1.00
η_3	–4.83	[–7.62; –2.32]	2707	1.00
η_4	–4.66	[–7.99; –1.61]	2839	1.00
η_5	–4.61	[–8.37; –1.04]	2827	1.00
η_6	–4.61	[–8.85; –0.55]	2992	1.00

Toulumne, Usa – PLM0



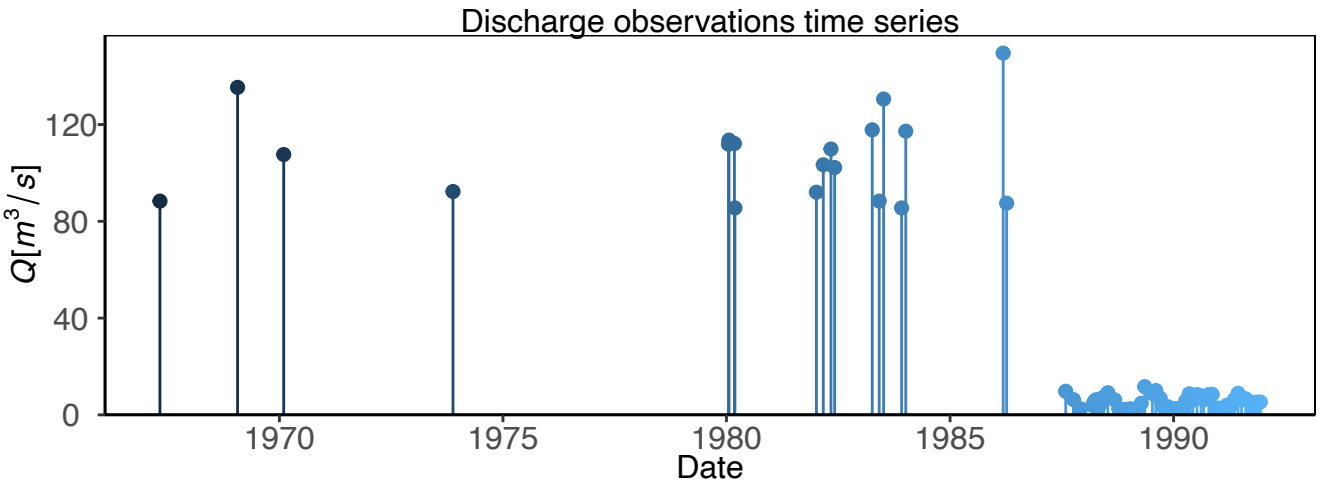
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	7.90	[6.43; 9.46]	9512	1.00
b	2.67	[2.53; 2.83]	9690	1.00
c	0.35	[0.29; 0.40]	9421	1.00
σ_ε	0.07	[0.06; 0.09]	8811	1.00

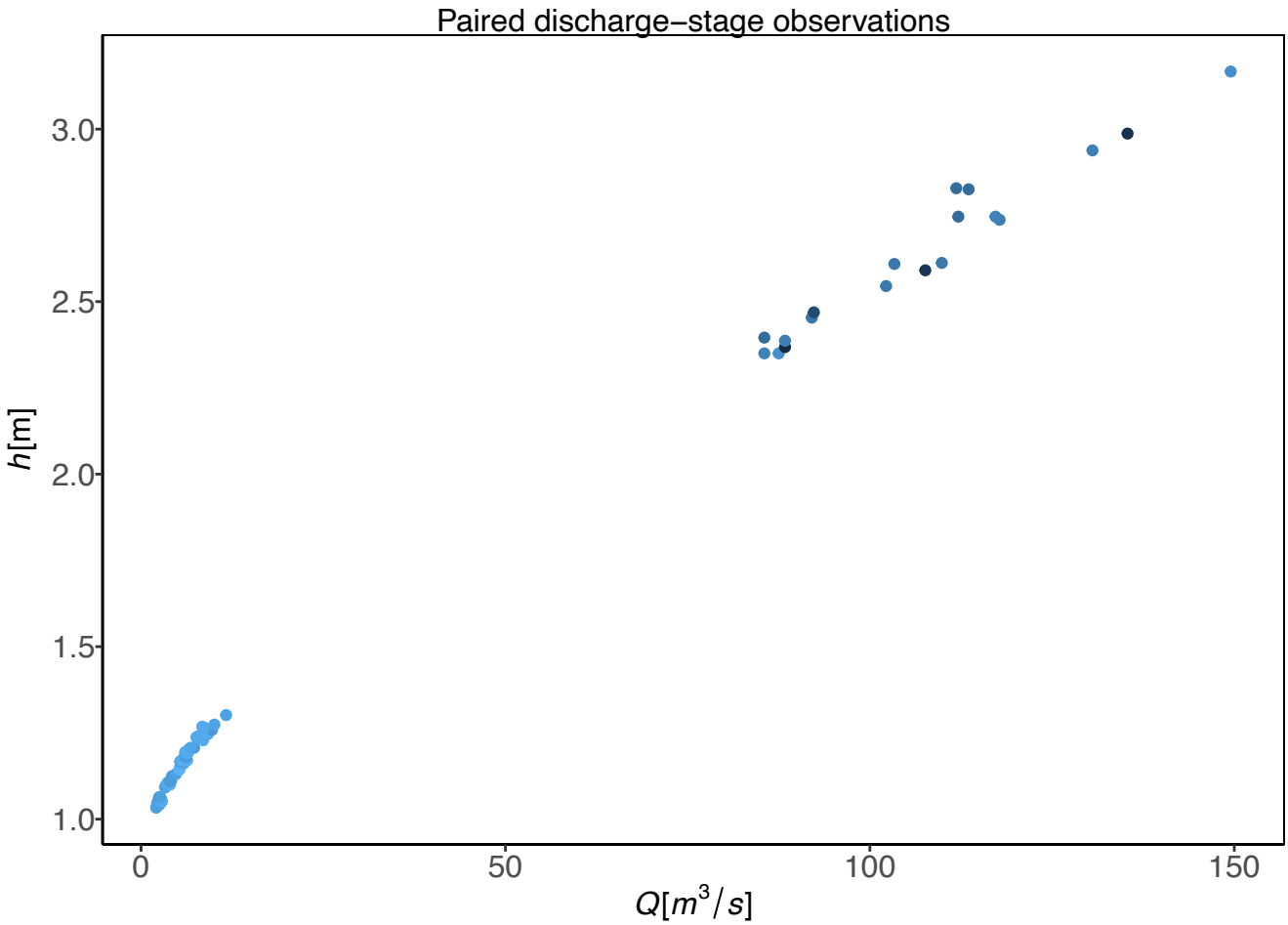
Power−law tournament results for Toulumne, Usa



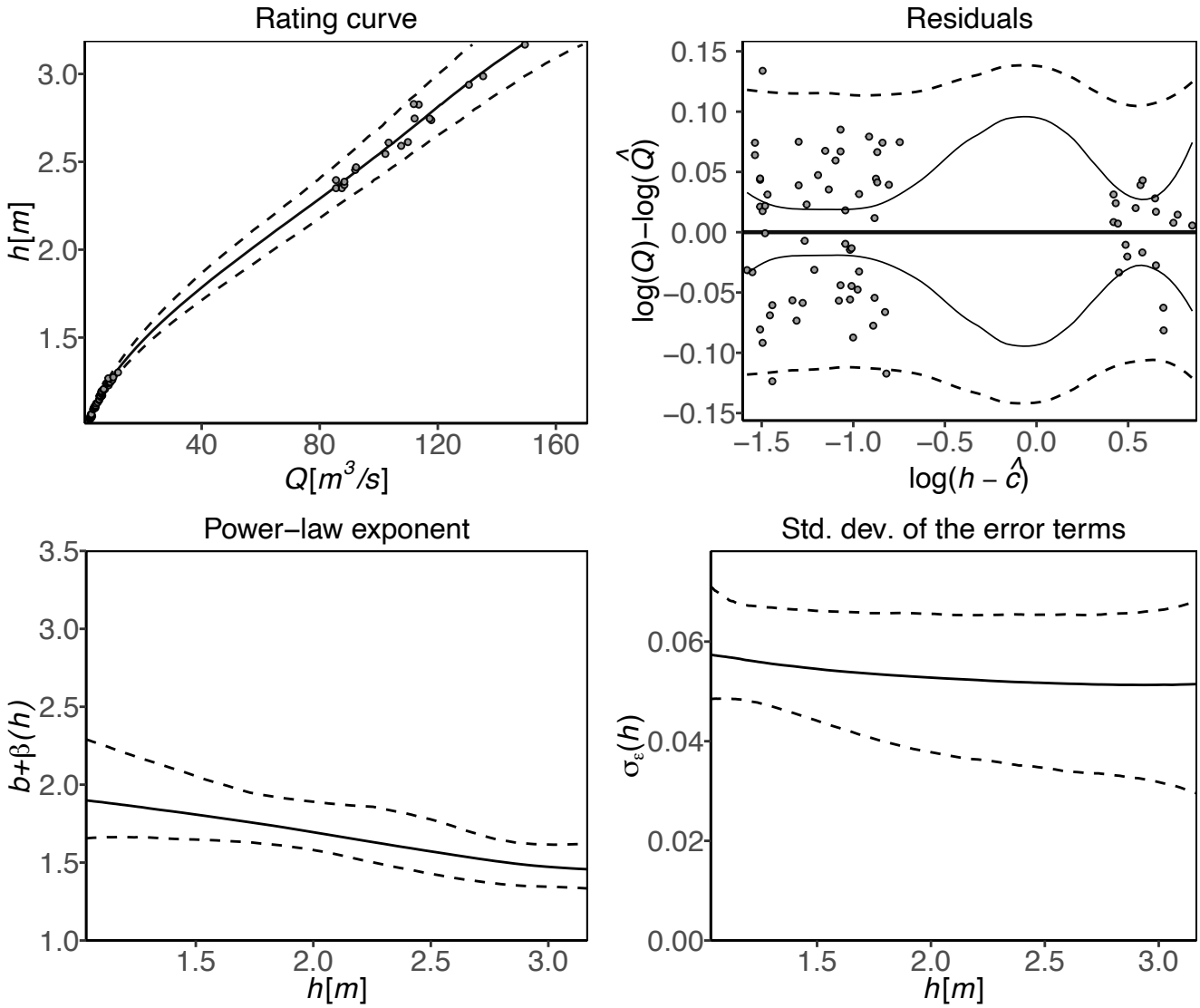
Station name:	Mokelumne
Location:	California, USA
Station number:	11323500
Number of observations:	74
Start date:	1967–05–01
End date:	1991–12–11
Max. discharge (m^3/s):	149.5
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.73
GPLM0	1.97	0.27
PLM	17.56	0.00
PLM0	17.15	0.00



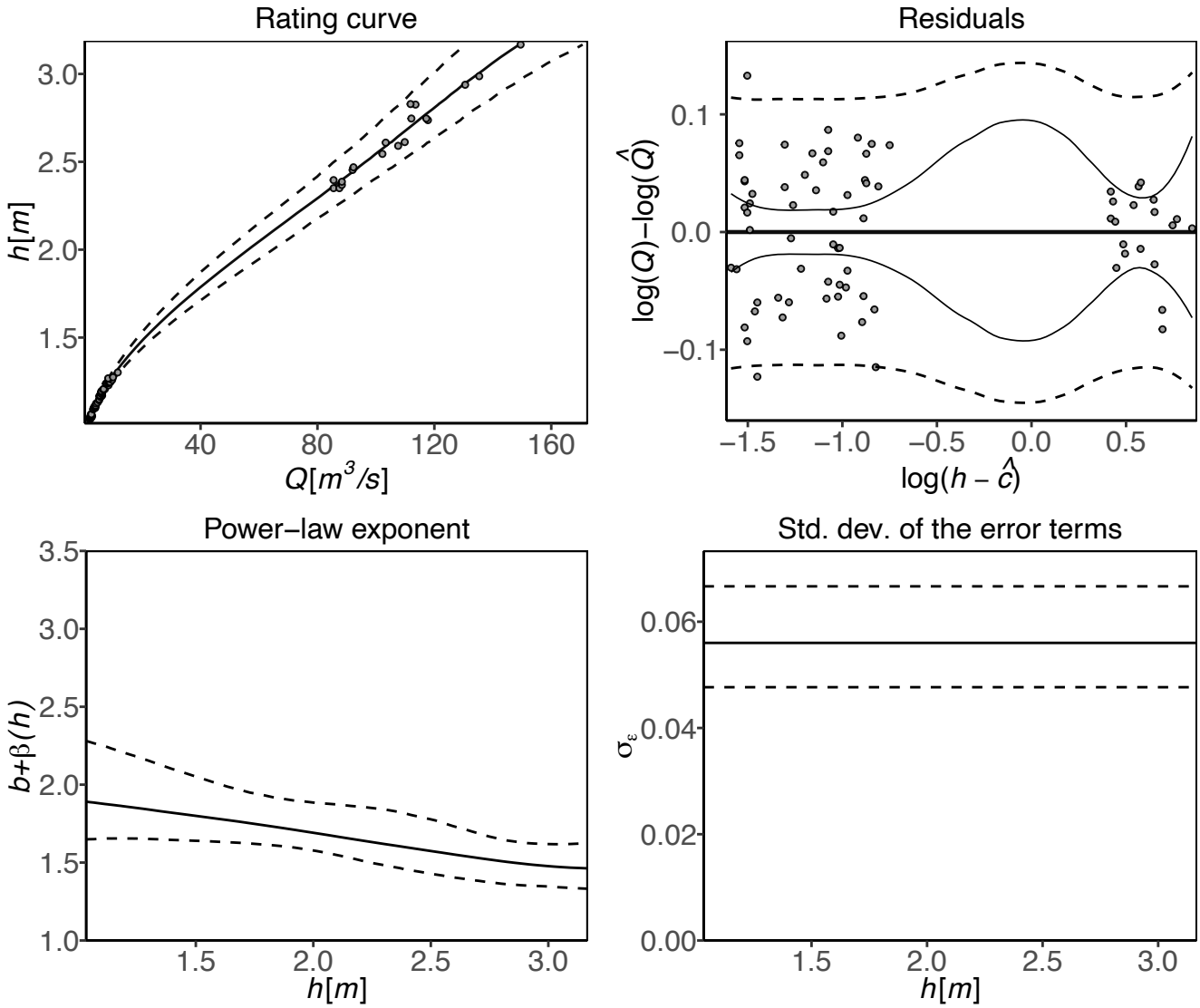


Mokelumne, Usa – GPLM



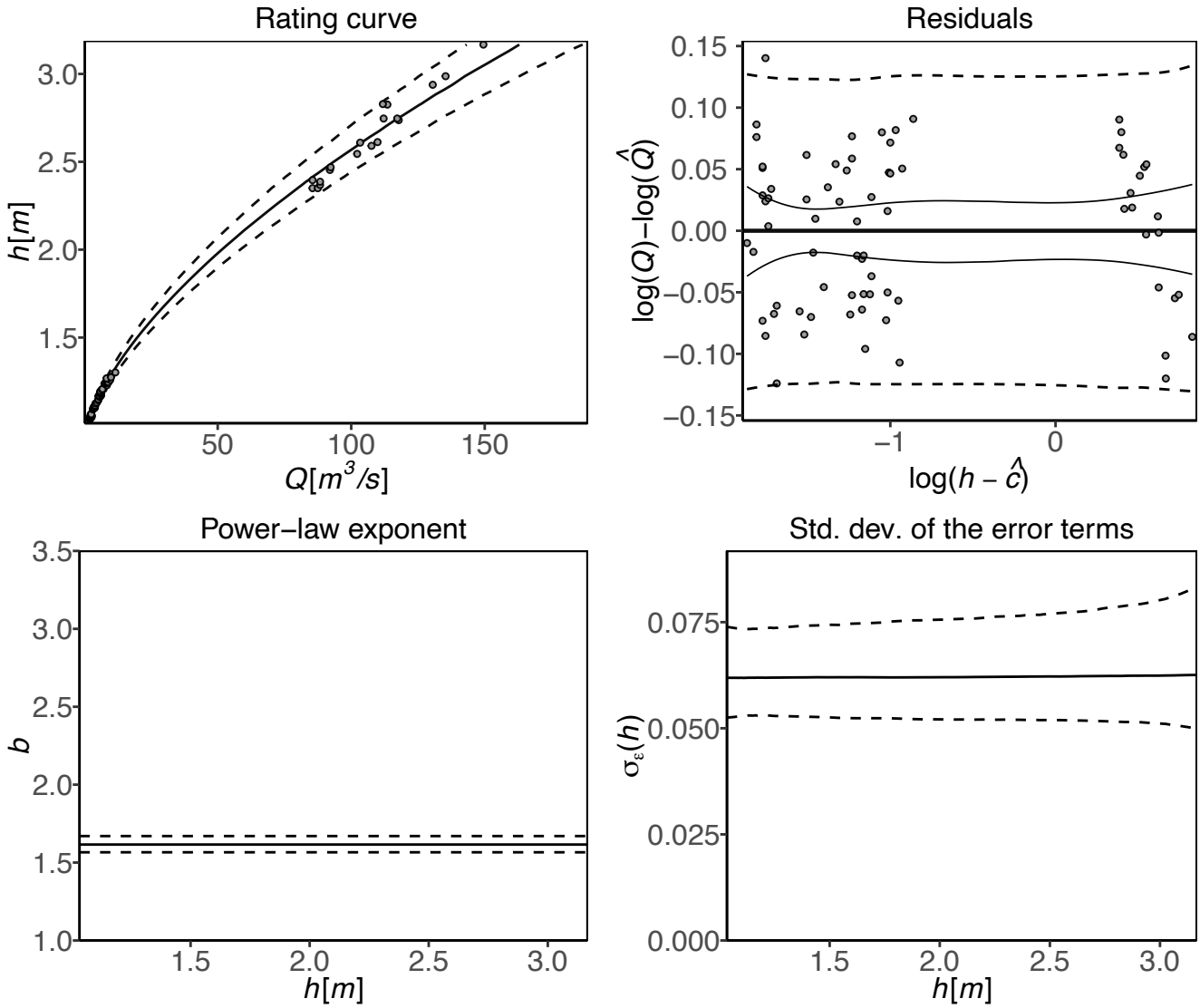
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	43.00	[37.62; 47.11]	3035	1.00
b	1.83	[1.83; 1.84]	10658	1.00
c	0.83	[0.75; 0.87]	1815	1.00
σ_β	0.31	[0.14; 0.82]	2469	1.00
ϕ_β	2.00	[0.55; 7.70]	2025	1.00
σ_η	0.13	[0.00; 0.52]	987	1.02
η_1	–5.72	[–6.05; –5.29]	2665	1.00
η_2	–6.03	[–7.85; –4.23]	1921	1.00
η_3	–6.54	[–9.06; –3.73]	1933	1.01
η_4	–7.03	[–10.01; –3.37]	1997	1.01
η_5	–7.15	[–10.59; –3.07]	2299	1.00
η_6	–7.16	[–11.13; –2.73]	2403	1.00

Mokelumne, Usa – GPLM0



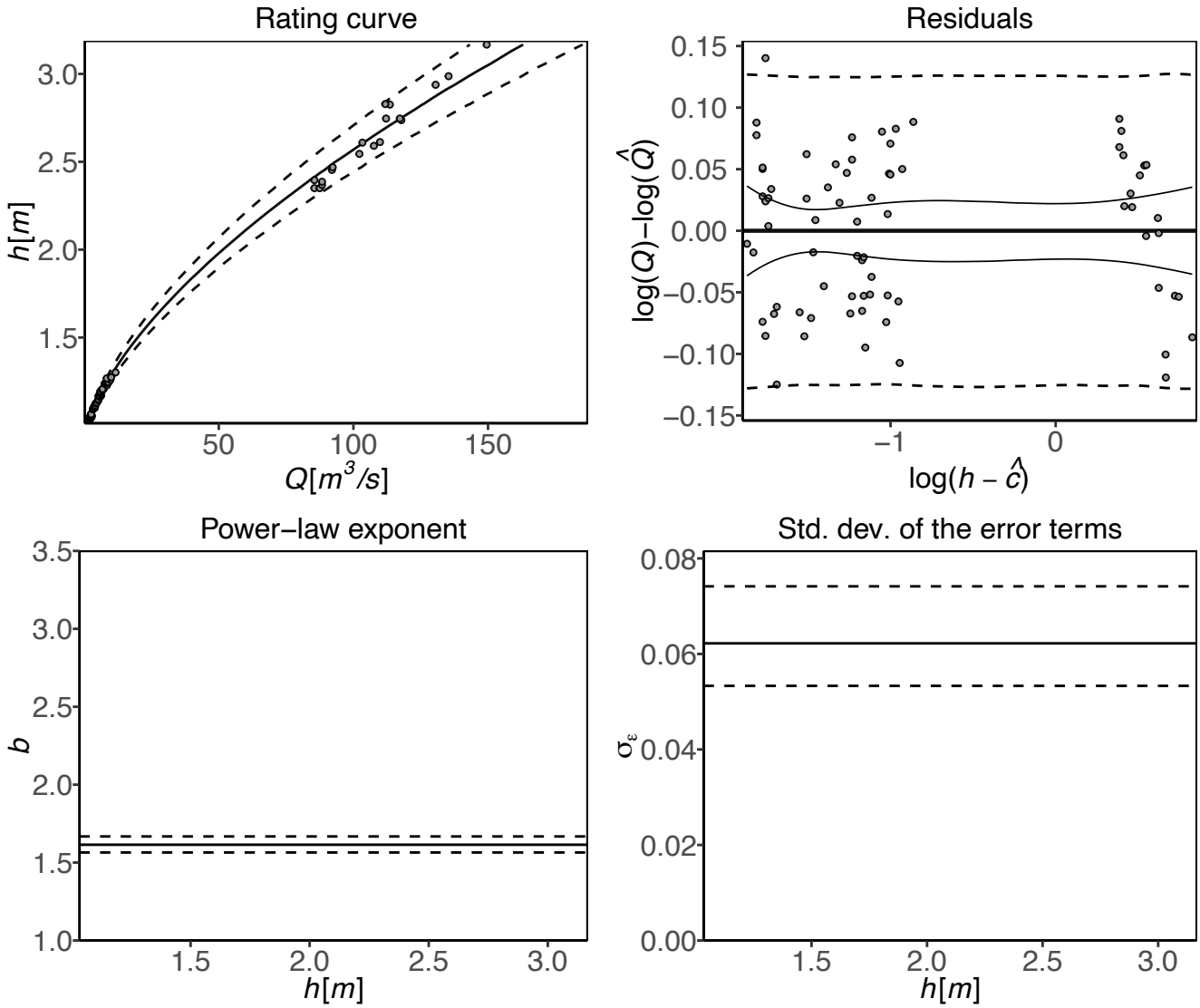
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	42.98	[37.57; 47.01]	6362	1.00
b	1.83	[1.83; 1.84]	11184	1.00
c	0.83	[0.75; 0.88]	3955	1.00
σ_ε	0.06	[0.05; 0.07]	5127	1.00
σ_β	0.56	[0.36; 0.91]	5570	1.00
ϕ_β	2.10	[0.54; 8.58]	3643	1.00

Mokelumne, Usa – PLM



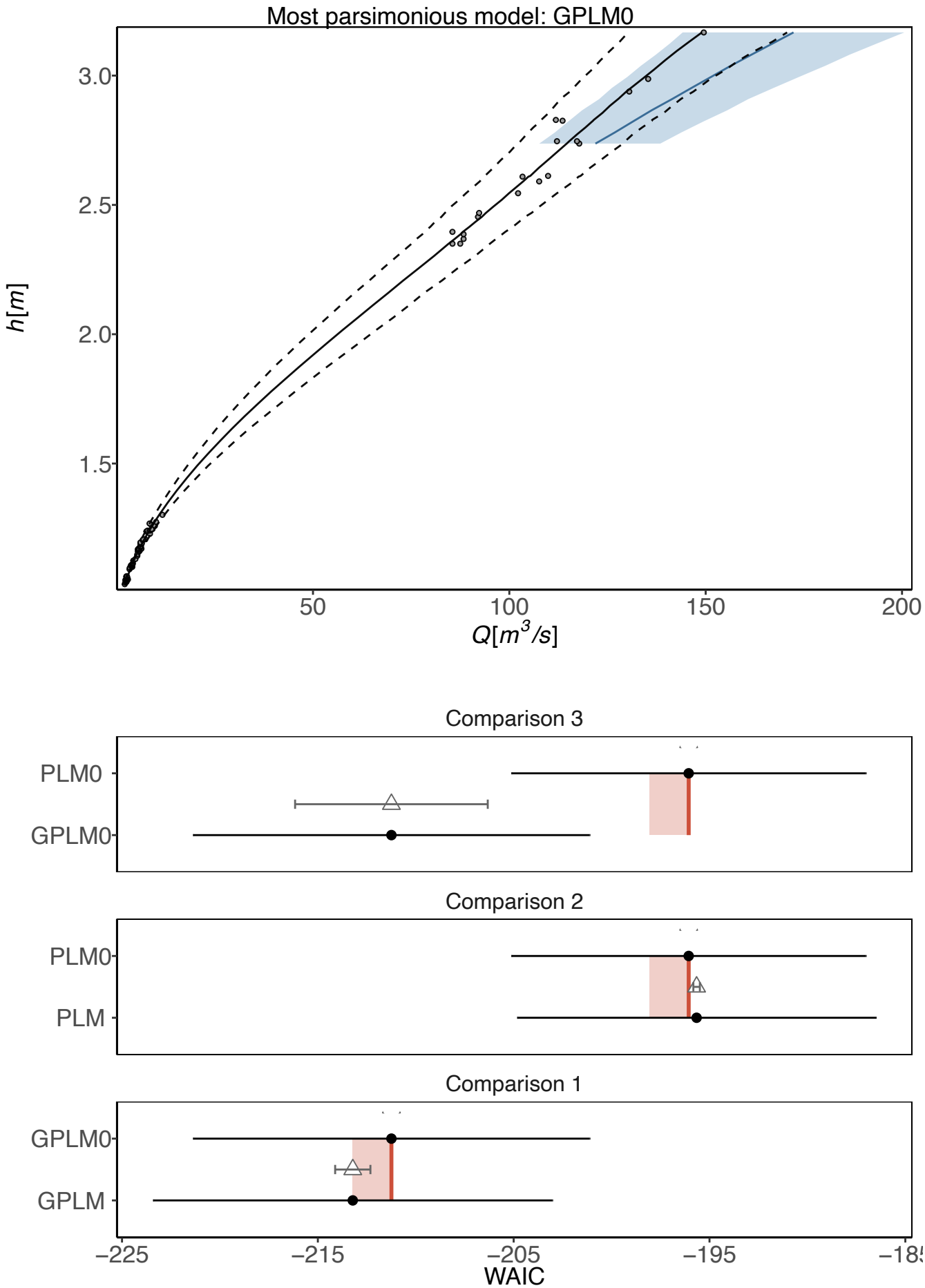
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	42.84	[41.04; 44.47]	3254	1.00
b	1.62	[1.57; 1.67]	2872	1.00
c	0.88	[0.86; 0.89]	2660	1.00
σ_η	0.07	[0.00; 0.36]	1716	1.00
η_1	–5.56	[–5.89; –5.21]	2765	1.00
η_2	–5.54	[–7.49; –3.62]	2673	1.00
η_3	–5.55	[–8.09; –2.89]	2706	1.00
η_4	–5.49	[–8.61; –2.25]	2906	1.00
η_5	–5.40	[–9.00; –1.67]	2888	1.00
η_6	–5.38	[–9.35; –1.12]	2964	1.00

Mokelumne, Usa – PLM0



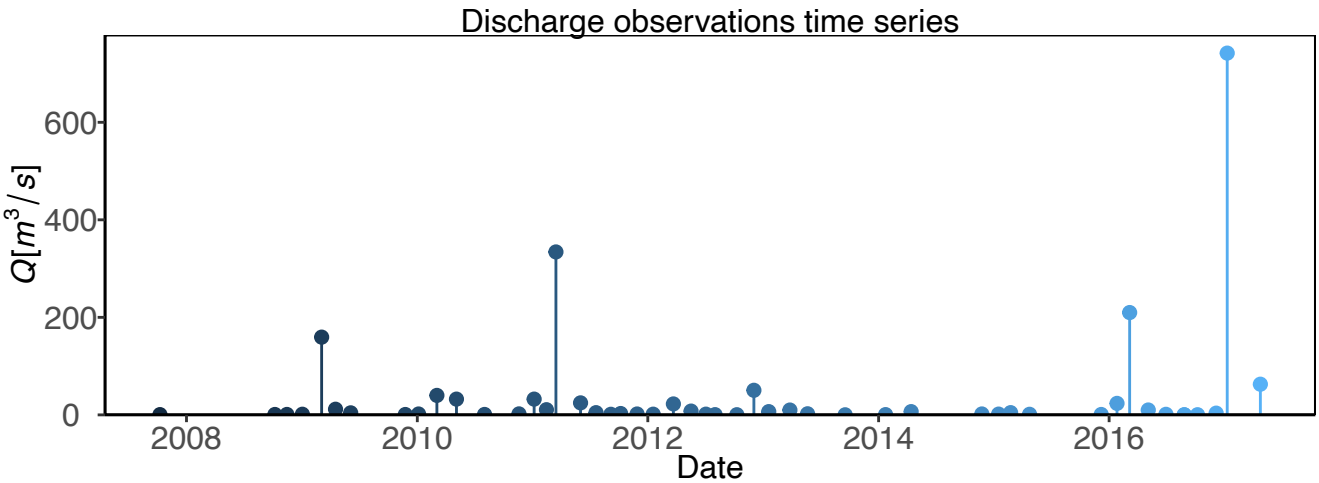
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	42.85	[41.09; 44.46]	10072	1.00
b	1.61	[1.56; 1.67]	8963	1.00
c	0.88	[0.86; 0.89]	8711	1.00
σ_ε	0.06	[0.05; 0.07]	9388	1.00

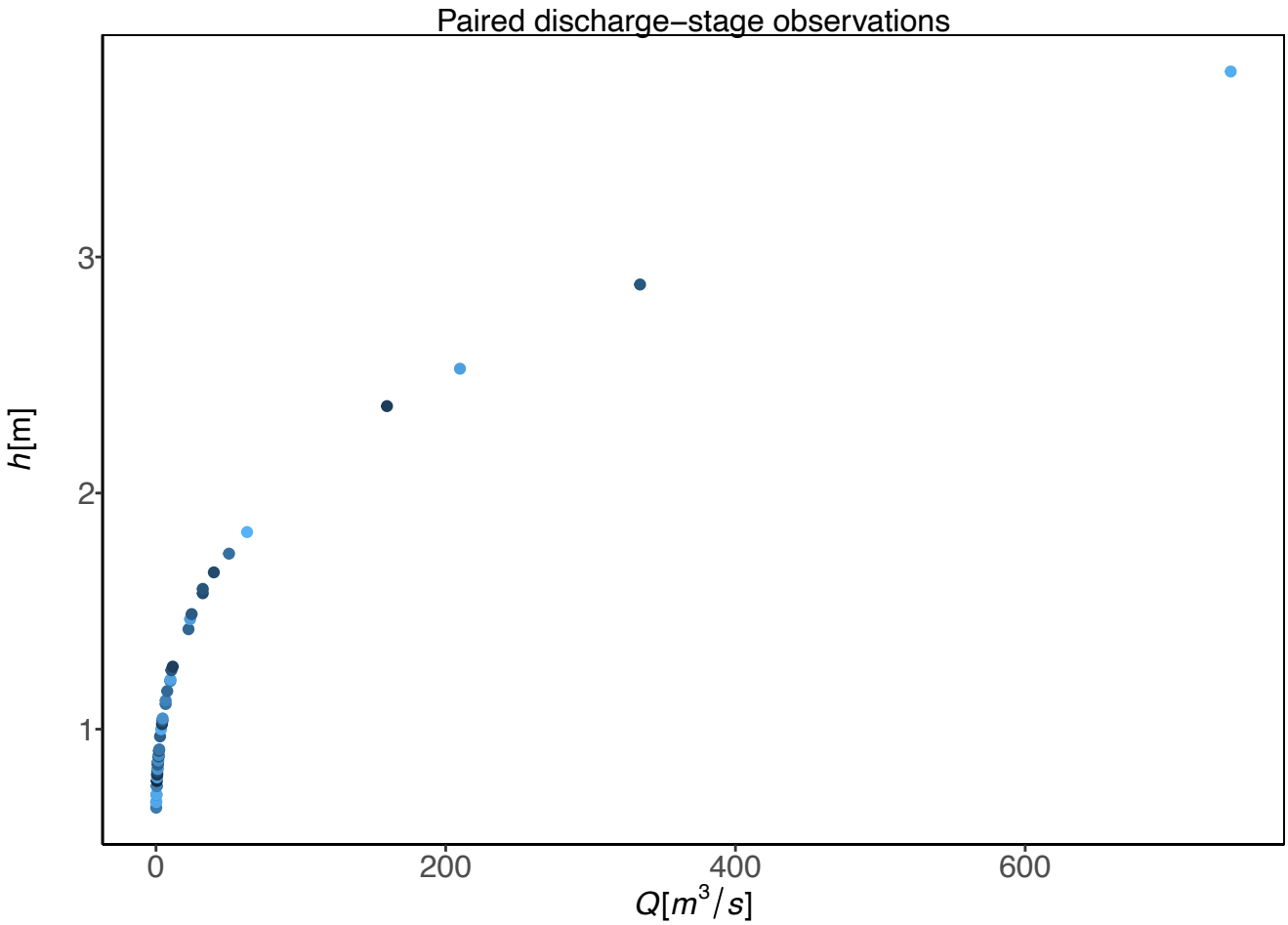
Power−law tournament results for Mokelumne, Usa



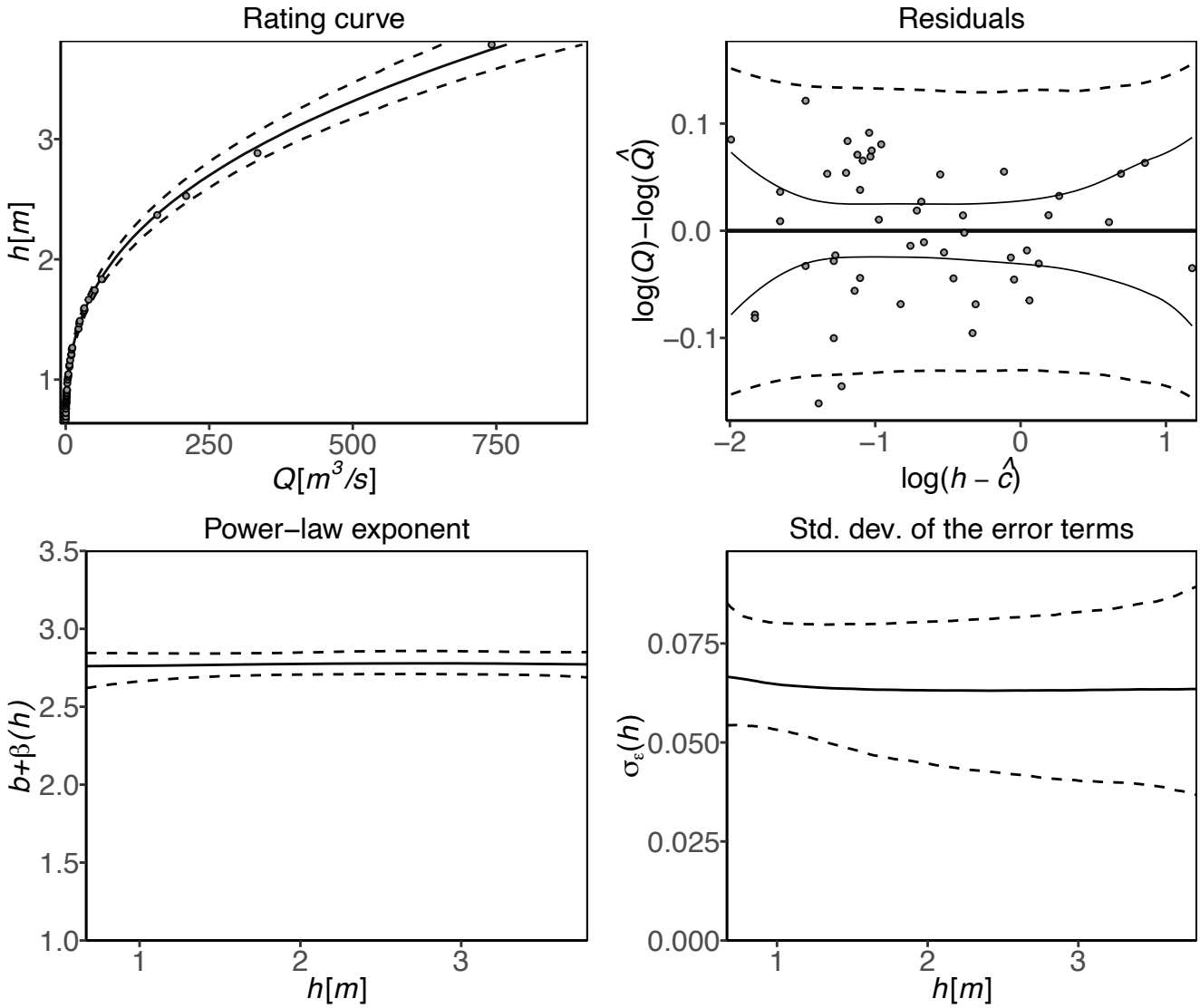
Station name:	Cosumnes
Location:	California, USA
Station number:	11335000
Number of observations:	49
Start date:	2007–10–09
End date:	2017–04–24
Max. discharge (m^3/s):	741.9
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.23	0.27
GPLM0	0.97	0.19
PLM	0.00	0.30
PLM0	0.39	0.25



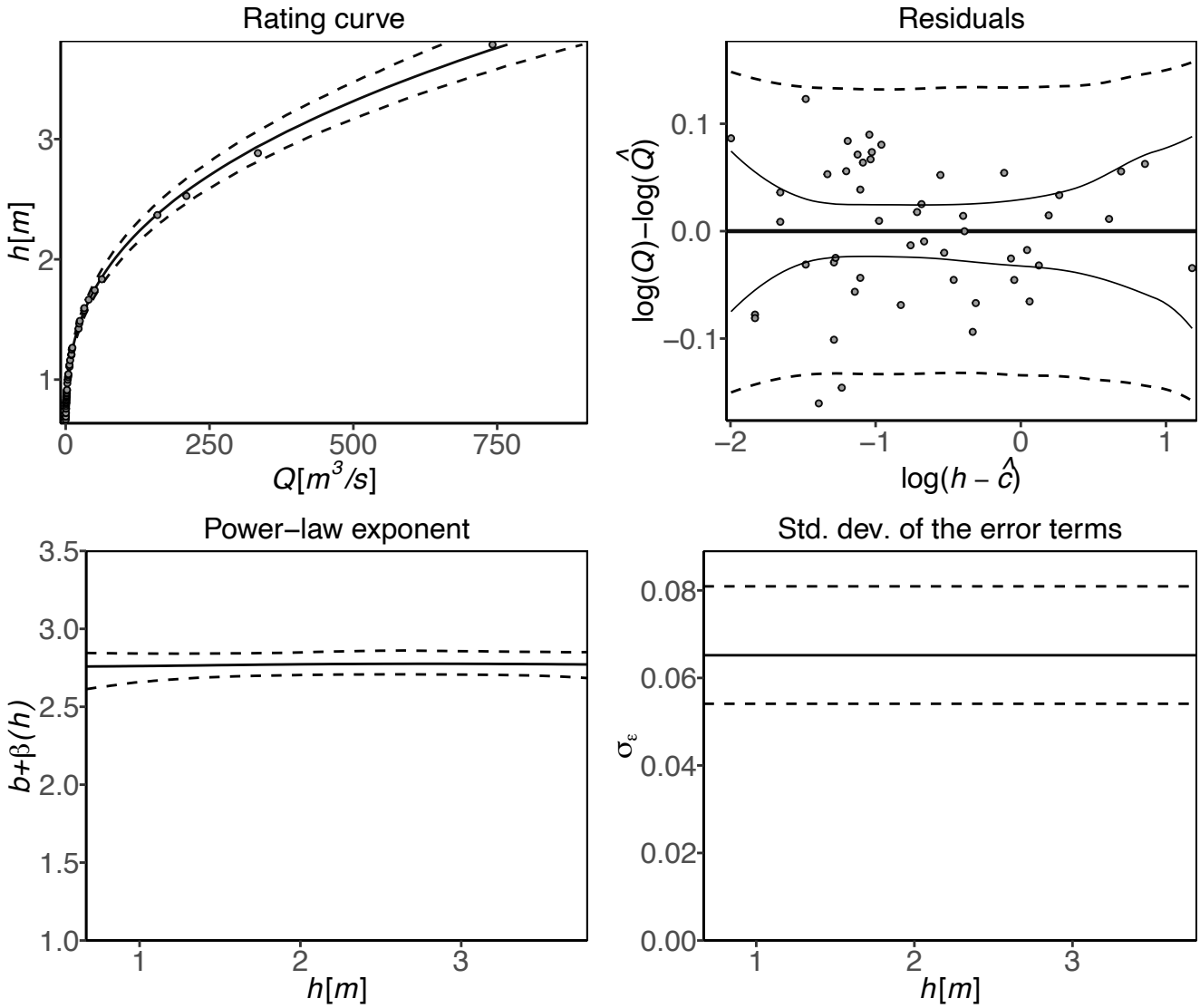


Cosumnes, Usa – GPLM



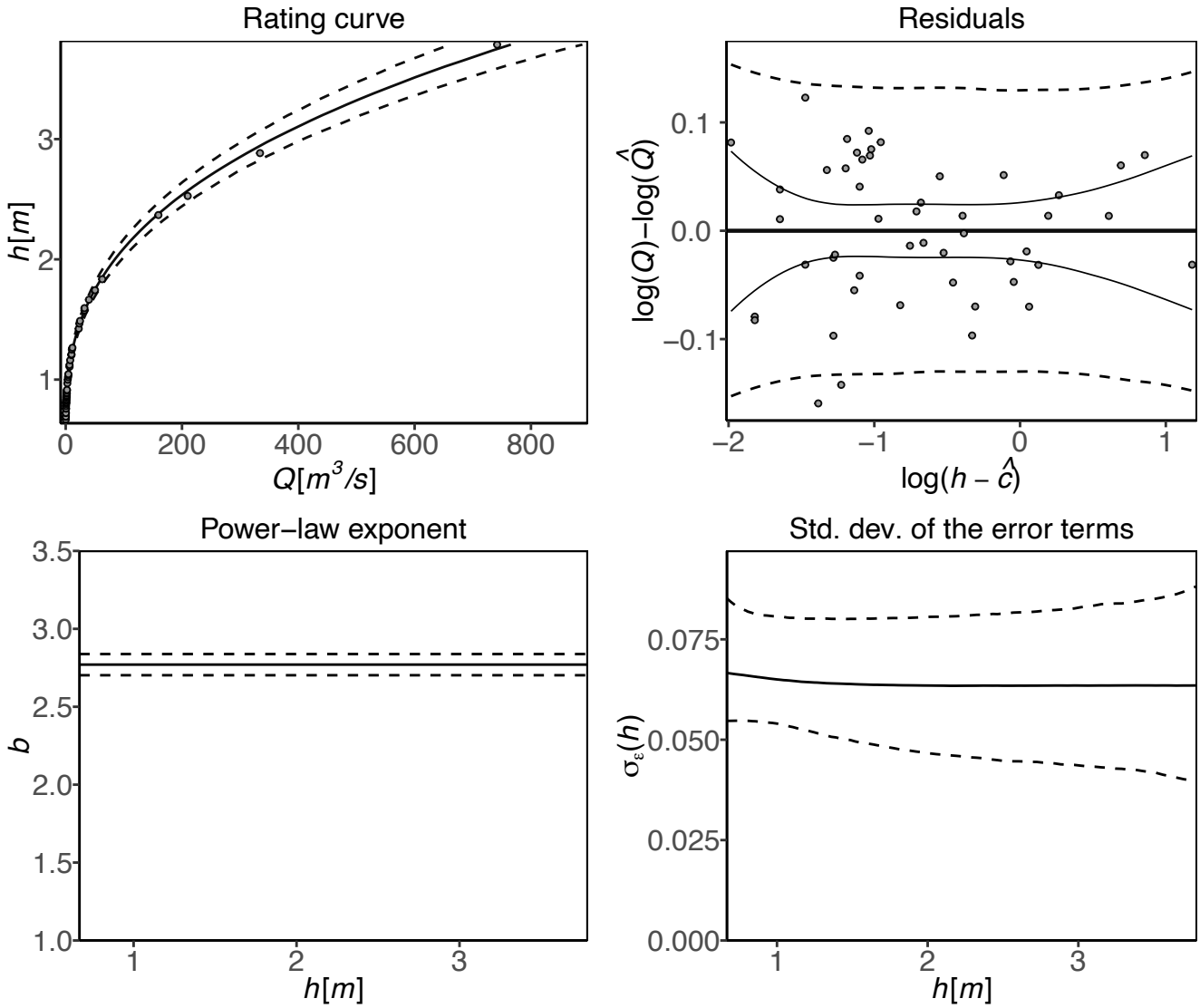
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	29.15	[27.90; 30.51]	2422	1.00
b	1.84	[1.83; 1.84]	9945	1.00
c	0.53	[0.52; 0.55]	1419	1.00
σ_β	0.54	[0.31; 1.06]	2454	1.00
ϕ_β	57.68	[3.56; 29471.13]	1142	1.01
σ_η	0.10	[0.00; 0.51]	1717	1.00
η_1	–5.42	[–5.83; –4.92]	2137	1.00
η_2	–5.78	[–7.60; –3.79]	2258	1.00
η_3	–6.07	[–8.72; –3.24]	2178	1.00
η_4	–6.10	[–9.47; –2.60]	2191	1.00
η_5	–6.08	[–10.01; –2.11]	2251	1.00
η_6	–6.11	[–10.48; –1.60]	2250	1.00

Cosumnes, Usa – GPLM0



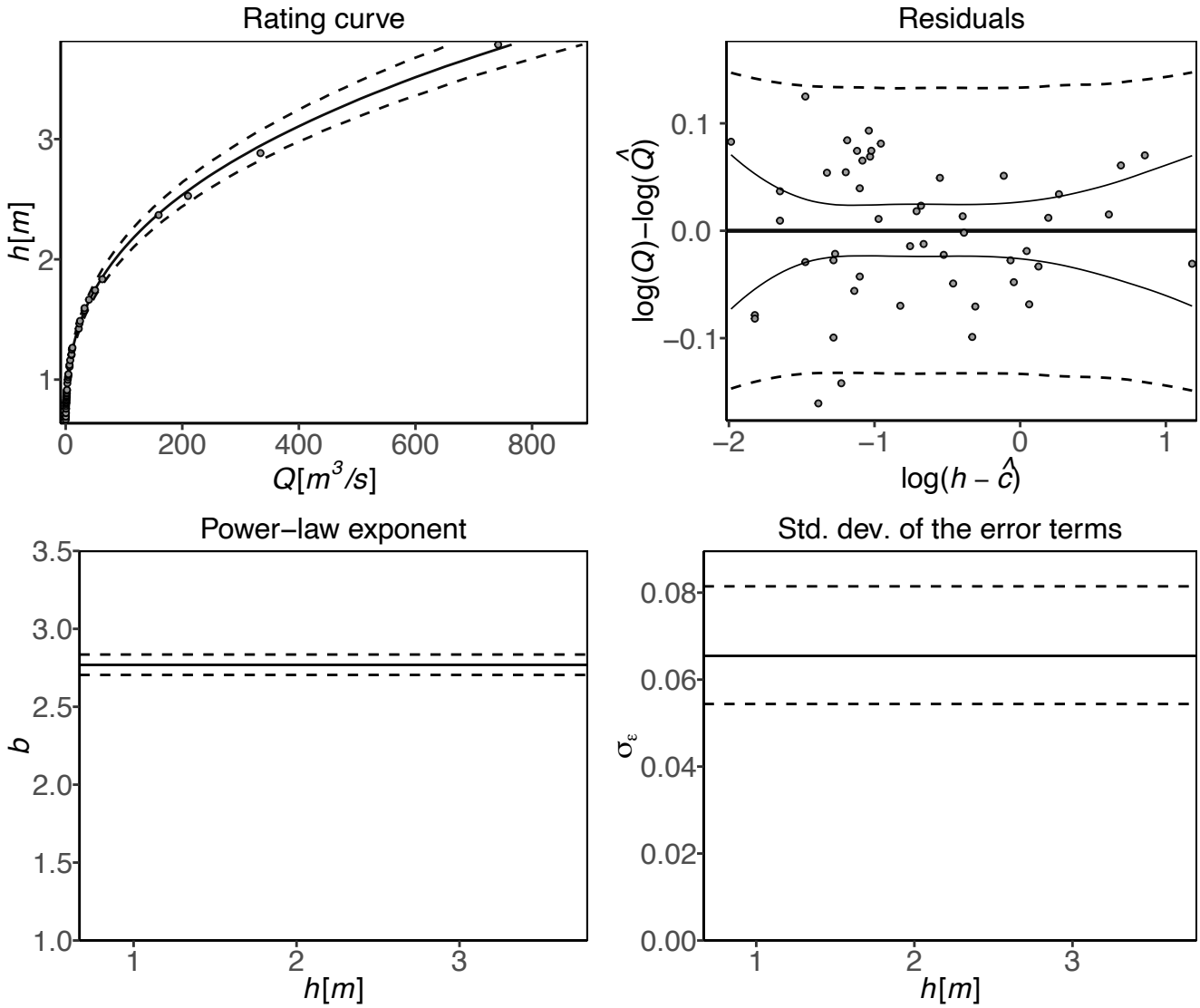
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	29.18	[27.87; 30.52]	5160	1.00
b	1.84	[1.83; 1.84]	12963	1.00
c	0.53	[0.52; 0.55]	3013	1.00
σ_ε	0.07	[0.05; 0.08]	4752	1.00
σ_β	0.74	[0.56; 1.03]	5659	1.00
ϕ_β	55.14	[3.67; 34013.01]	2003	1.00

Cosumnes, Usa – PLM



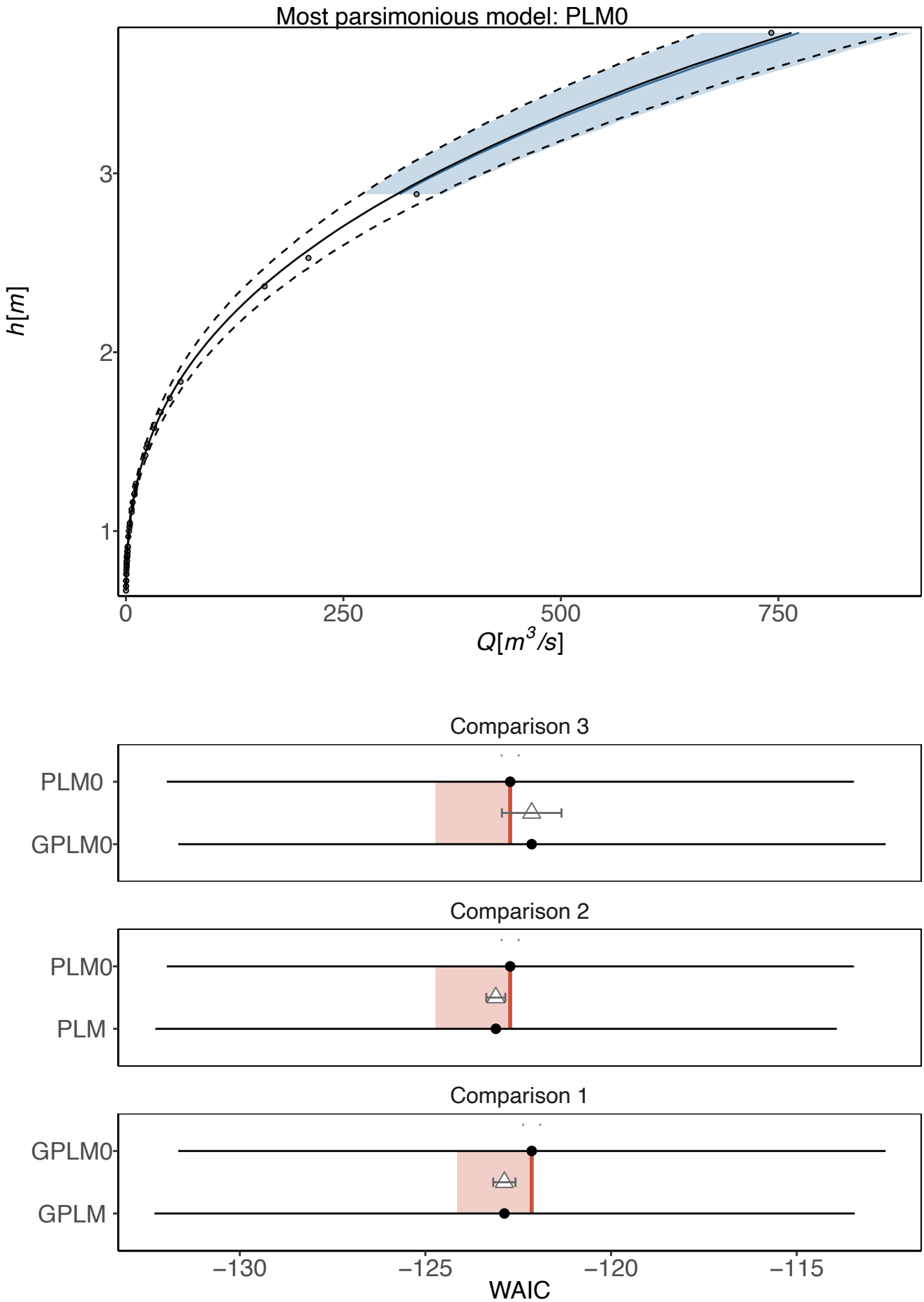
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	29.08	[27.81; 30.33]	3359	1.00
b	2.77	[2.70; 2.84]	2853	1.00
c	0.53	[0.52; 0.54]	2535	1.00
σ_η	0.09	[0.00; 0.47]	1763	1.00
η_1	–5.42	[–5.81; –4.93]	2660	1.00
η_2	–5.76	[–7.60; –3.79]	2806	1.00
η_3	–6.03	[–8.57; –3.24]	2854	1.00
η_4	–6.04	[–9.23; –2.68]	2483	1.00
η_5	–6.08	[–9.74; –2.24]	2470	1.00
η_6	–6.09	[–10.35; –1.81]	2791	1.00

Cosumnes, Usa – PLM0



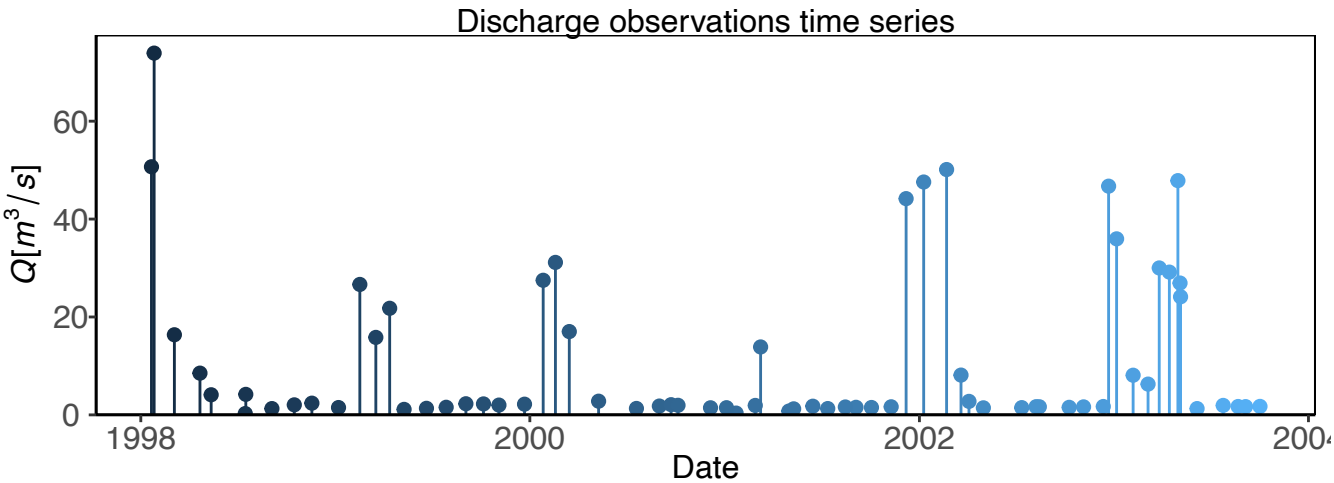
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	29.10	[27.89; 30.34]	11362	1.00
b	2.77	[2.70; 2.84]	9986	1.00
c	0.53	[0.52; 0.54]	9432	1.00
σ_ε	0.07	[0.05; 0.08]	9659	1.00

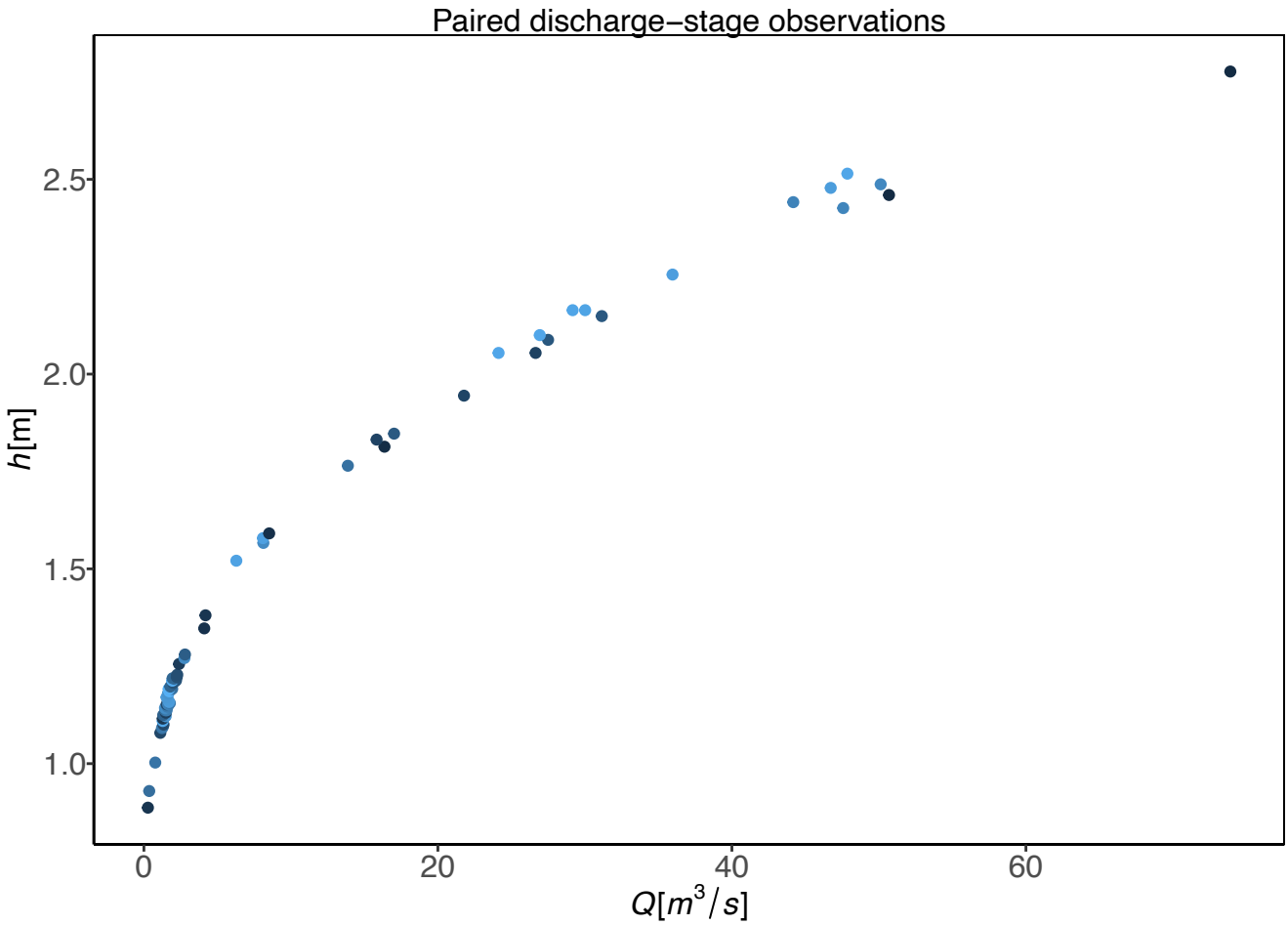
Power−law tournament results for Cosumnes, Usa



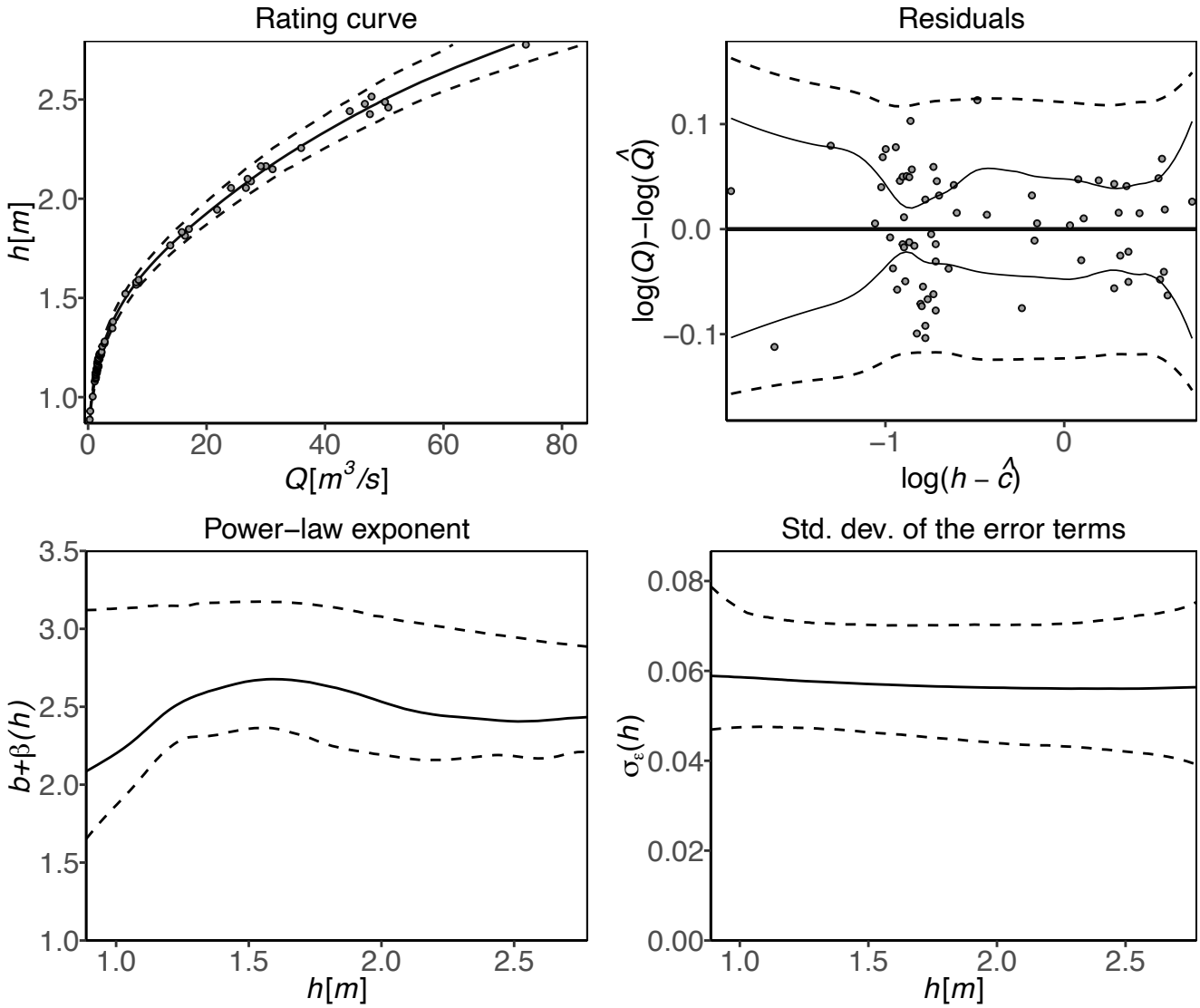
Station name:	Mad
Location:	California, USA
Station number:	11480410
Number of observations:	68
Start date:	1998–01–21
End date:	2003–10–02
Max. discharge (m^3/s):	73.9
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.59
GPLM0	0.69	0.41
PLM	17.58	0.00
PLM0	17.32	0.00



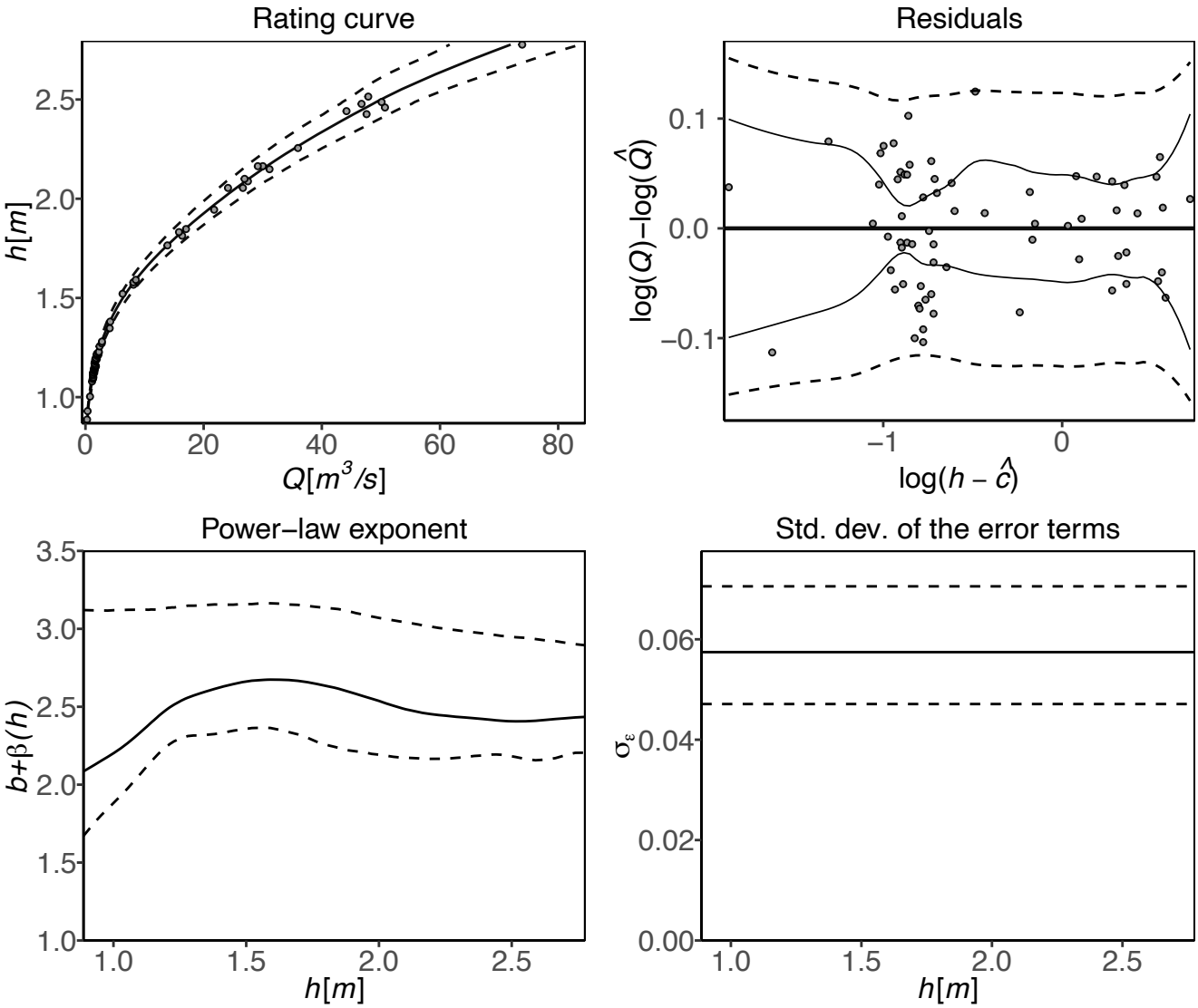


Mad, Usa – GPLM



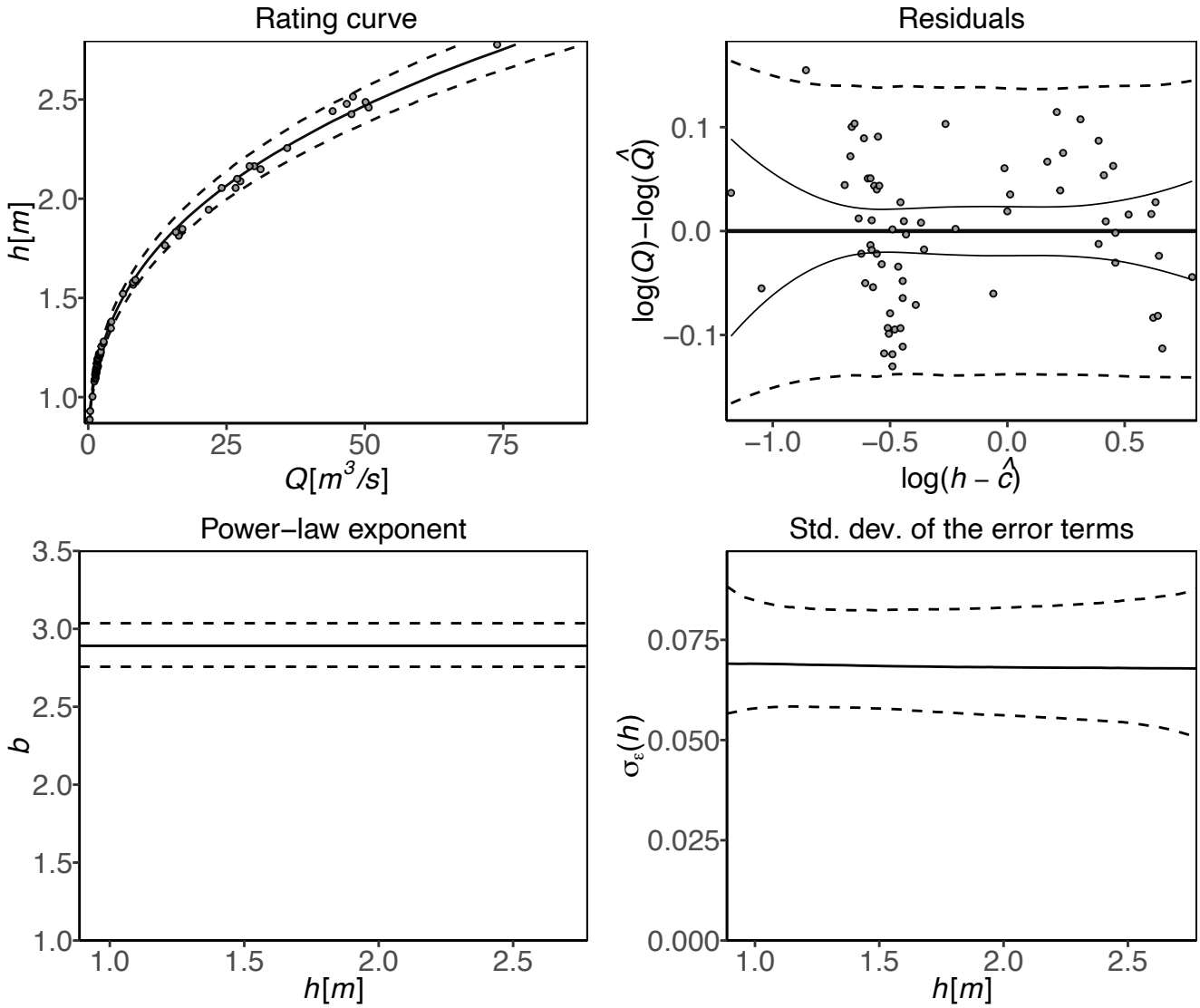
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.72	[6.90; 15.43]	1223	1.02
b	1.84	[1.83; 1.84]	9695	1.00
c	0.73	[0.53; 0.80]	1352	1.01
σ_β	0.50	[0.28; 1.00]	2136	1.01
ϕ_β	0.80	[0.30; 3.86]	1142	1.01
σ_η	0.09	[0.00; 0.44]	1434	1.00
η_1	–5.66	[–6.12; –5.08]	1778	1.00
η_2	–5.83	[–7.66; –3.96]	2002	1.00
η_3	–6.11	[–8.73; –3.40]	2302	1.00
η_4	–6.33	[–9.35; –2.96]	2256	1.00
η_5	–6.36	[–9.93; –2.49]	2253	1.00
η_6	–6.32	[–10.54; –2.10]	2248	1.00

Mad, Usa – GPLM0



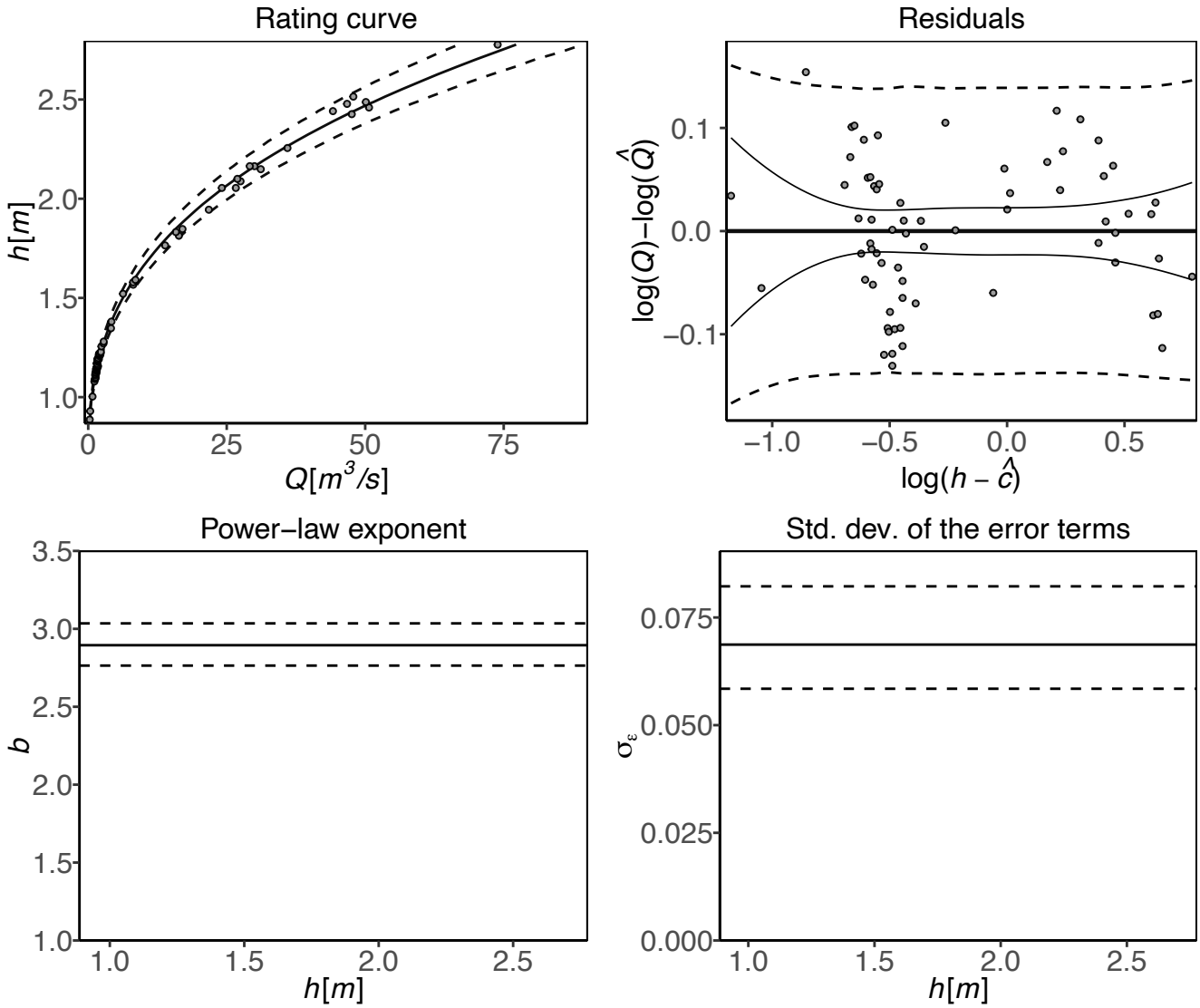
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.74	[6.98; 15.36]	1923	1.00
b	1.84	[1.83; 1.84]	12220	1.00
c	0.73	[0.53; 0.80]	2366	1.00
σ_ε	0.06	[0.05; 0.07]	3643	1.00
σ_β	0.71	[0.54; 1.00]	4864	1.00
ϕ_β	0.80	[0.29; 4.35]	1677	1.00

Mad, Usa – PLM



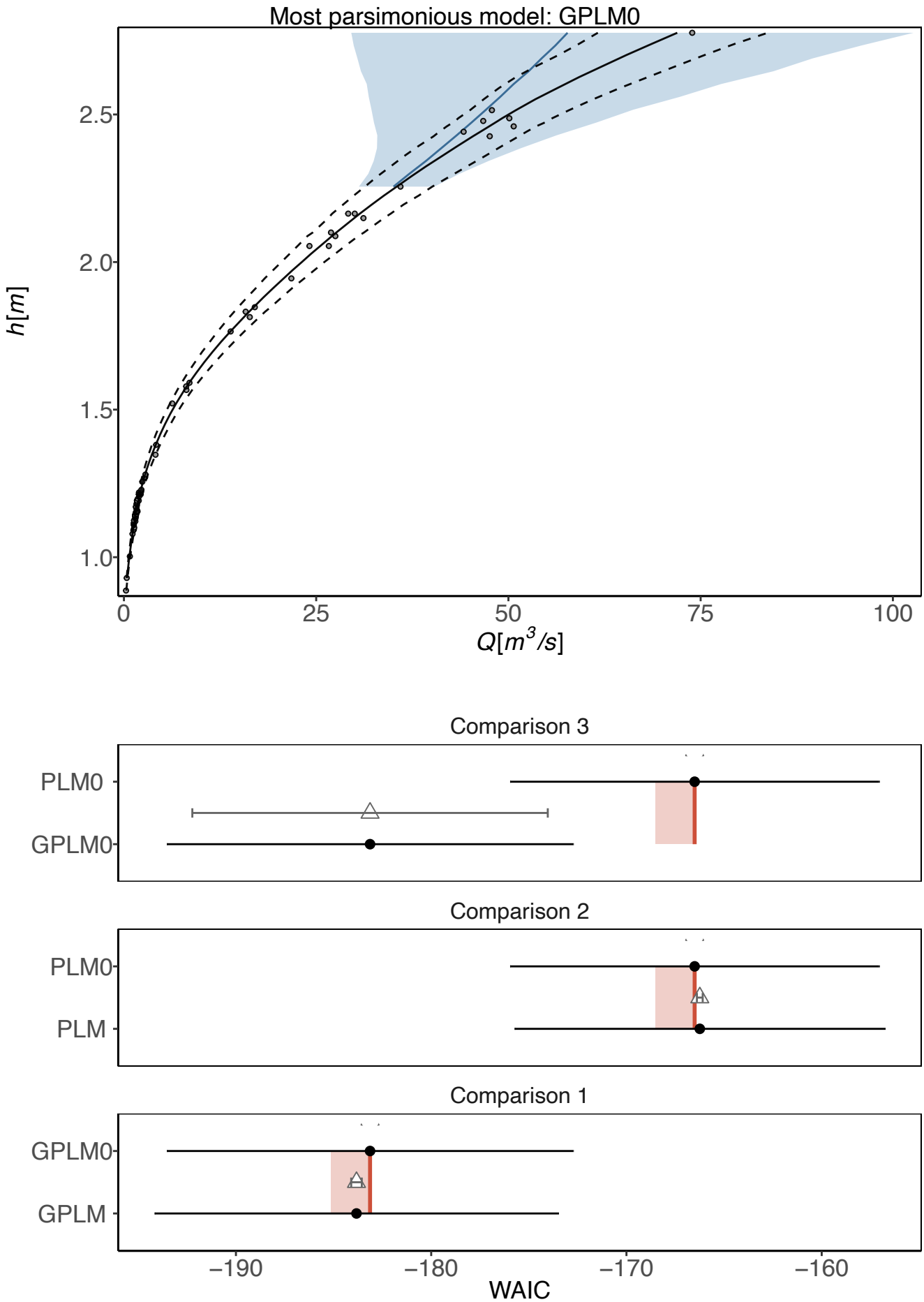
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	7.94	[6.90; 9.03]	2681	1.00
b	2.89	[2.76; 3.04]	2742	1.00
c	0.58	[0.54; 0.62]	2598	1.00
σ_η	0.08	[0.00; 0.38]	1821	1.00
η_1	–5.35	[–5.74; –4.85]	2137	1.00
η_2	–5.38	[–7.14; –3.55]	2673	1.00
η_3	–5.49	[–7.95; –2.91]	2767	1.00
η_4	–5.61	[–8.64; –2.48]	2796	1.00
η_5	–5.62	[–9.12; –1.93]	2759	1.00
η_6	–5.69	[–9.69; –1.48]	2742	1.00

Mad, Usa – PLM0



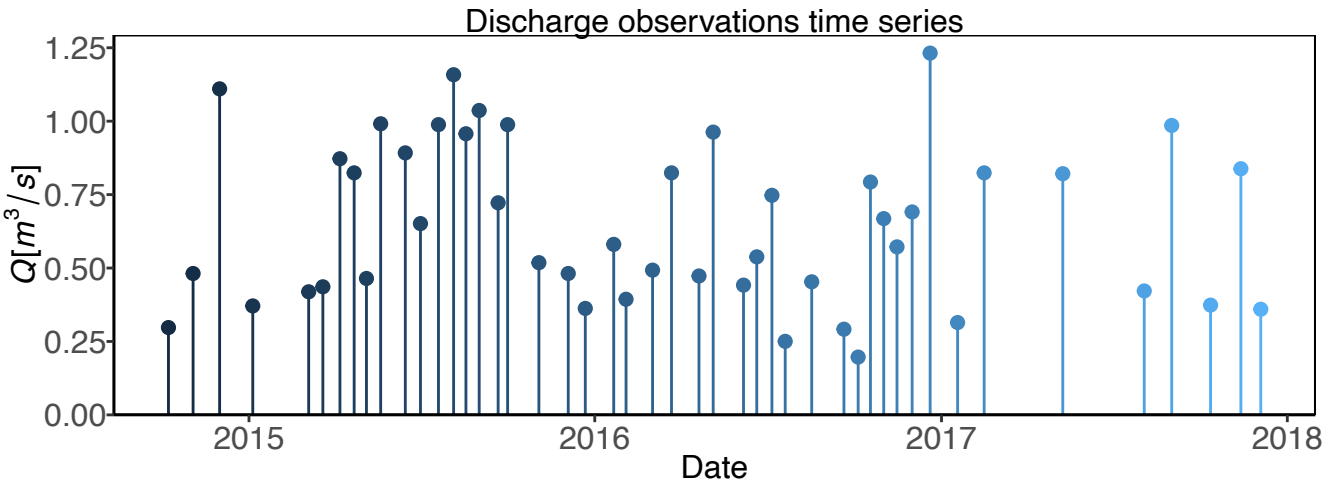
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	7.92	[6.90; 8.91]	9741	1.00
b	2.89	[2.76; 3.04]	9617	1.00
c	0.58	[0.54; 0.61]	9578	1.00
σ_ε	0.07	[0.06; 0.08]	9287	1.00

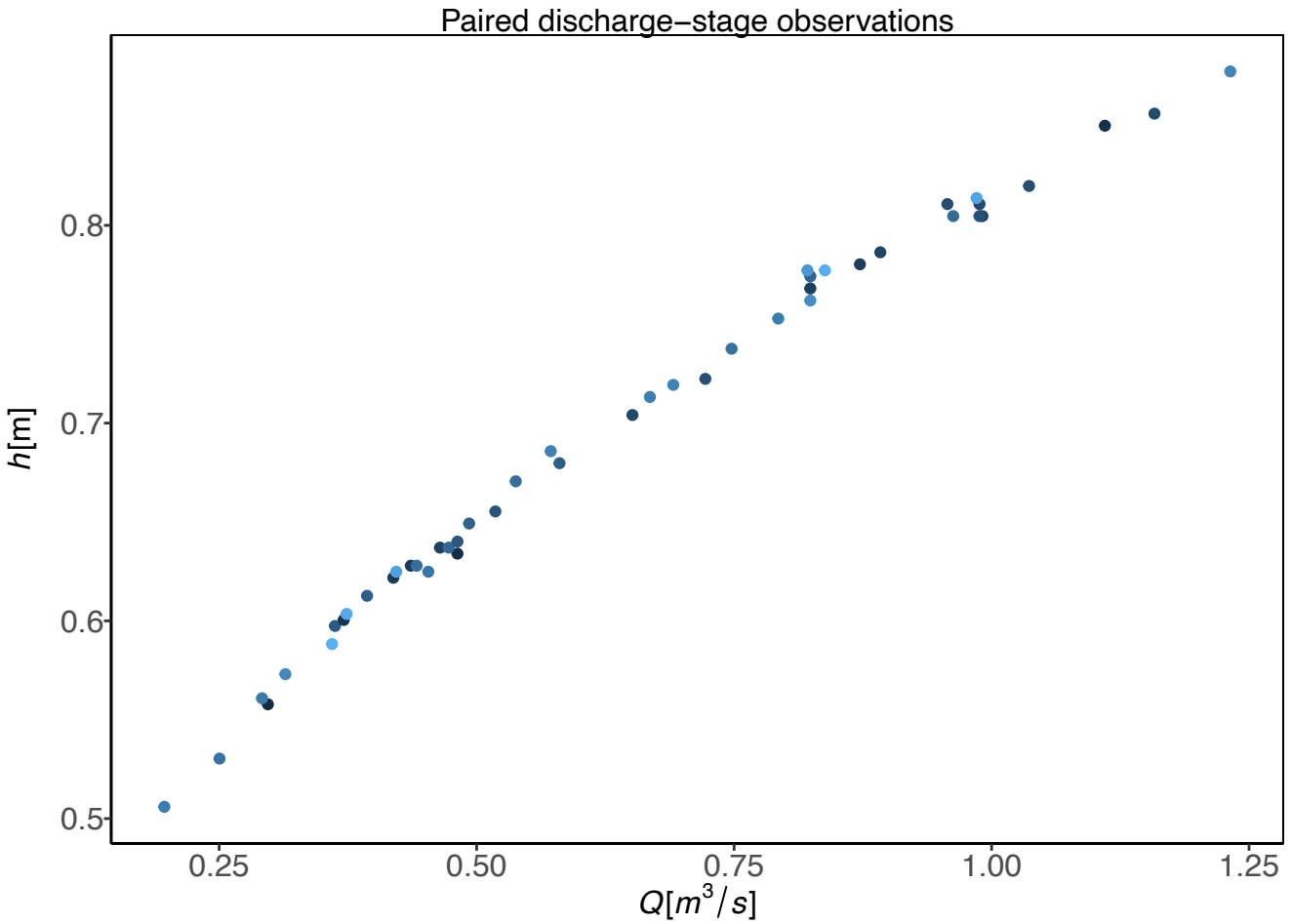
Power−law tournament results for Mad, Usa



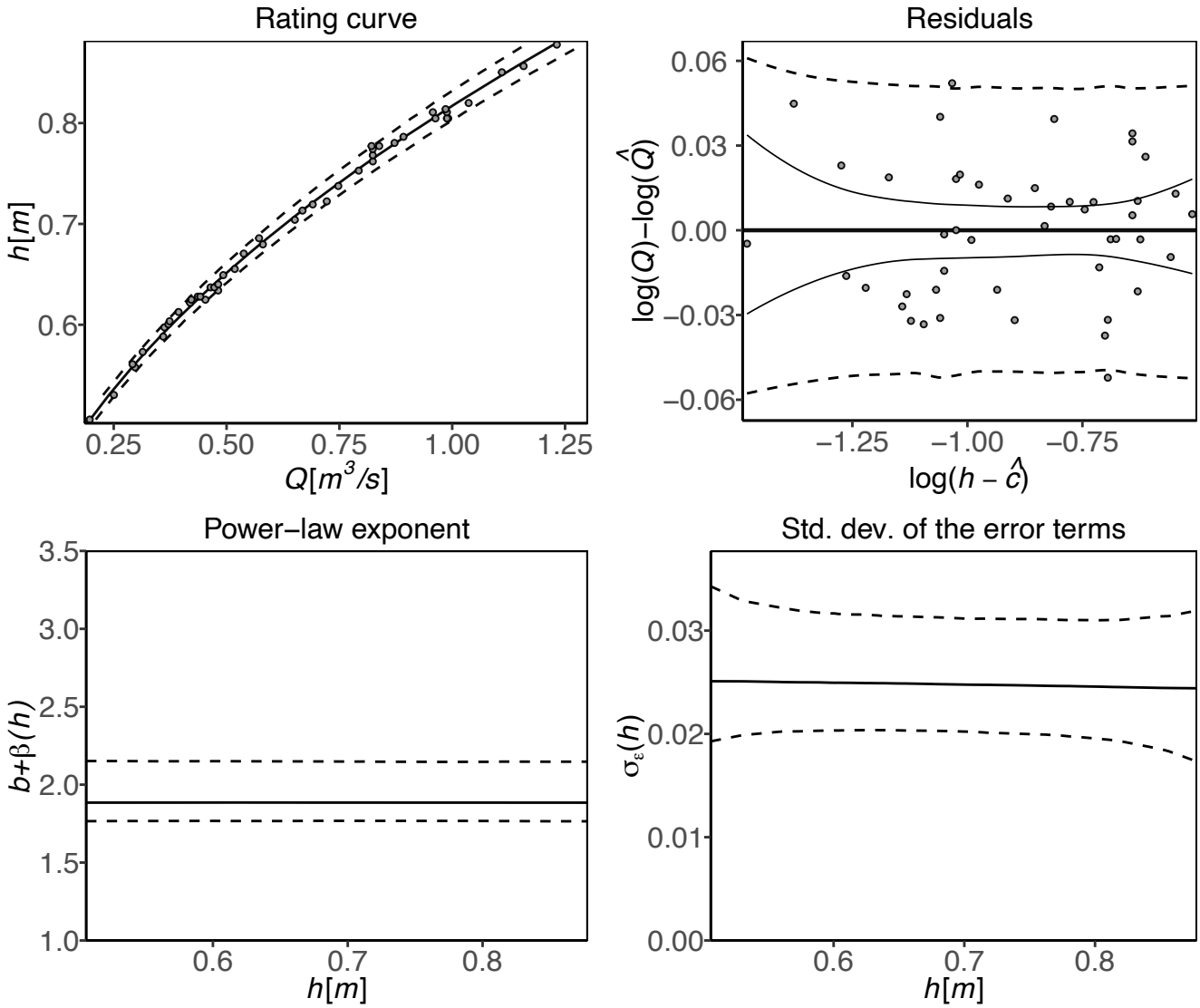
Station name:	Yaqui
Location:	California, USA
Station number:	09523600
Number of observations:	47
Start date:	2014–10–08
End date:	2017–12–04
Max. discharge (m^3/s):	1.2
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.10	0.25
GPLM0	0.00	0.27
PLM	0.22	0.24
PLM0	0.26	0.24



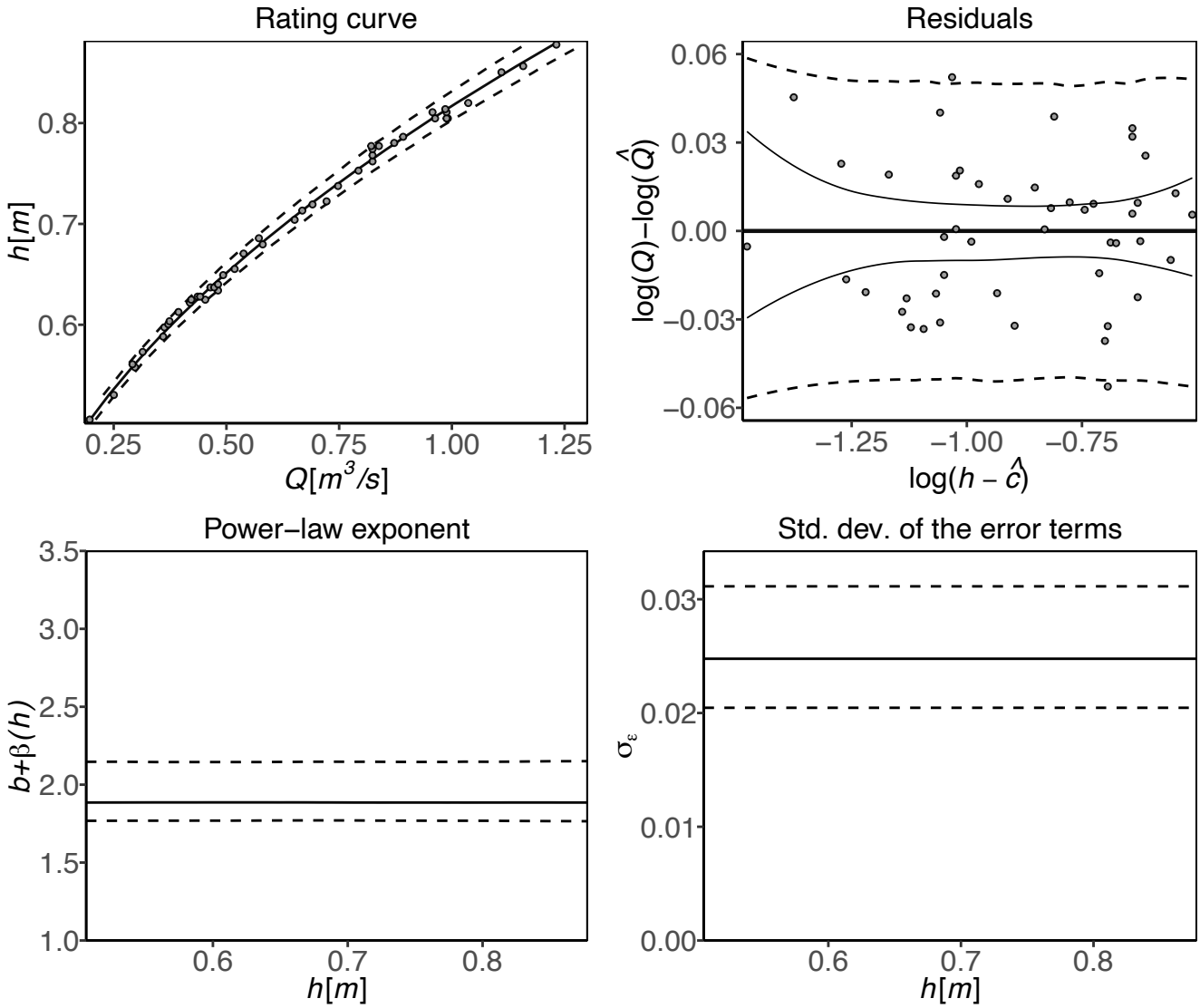


Yaqui, Usa – GPLM



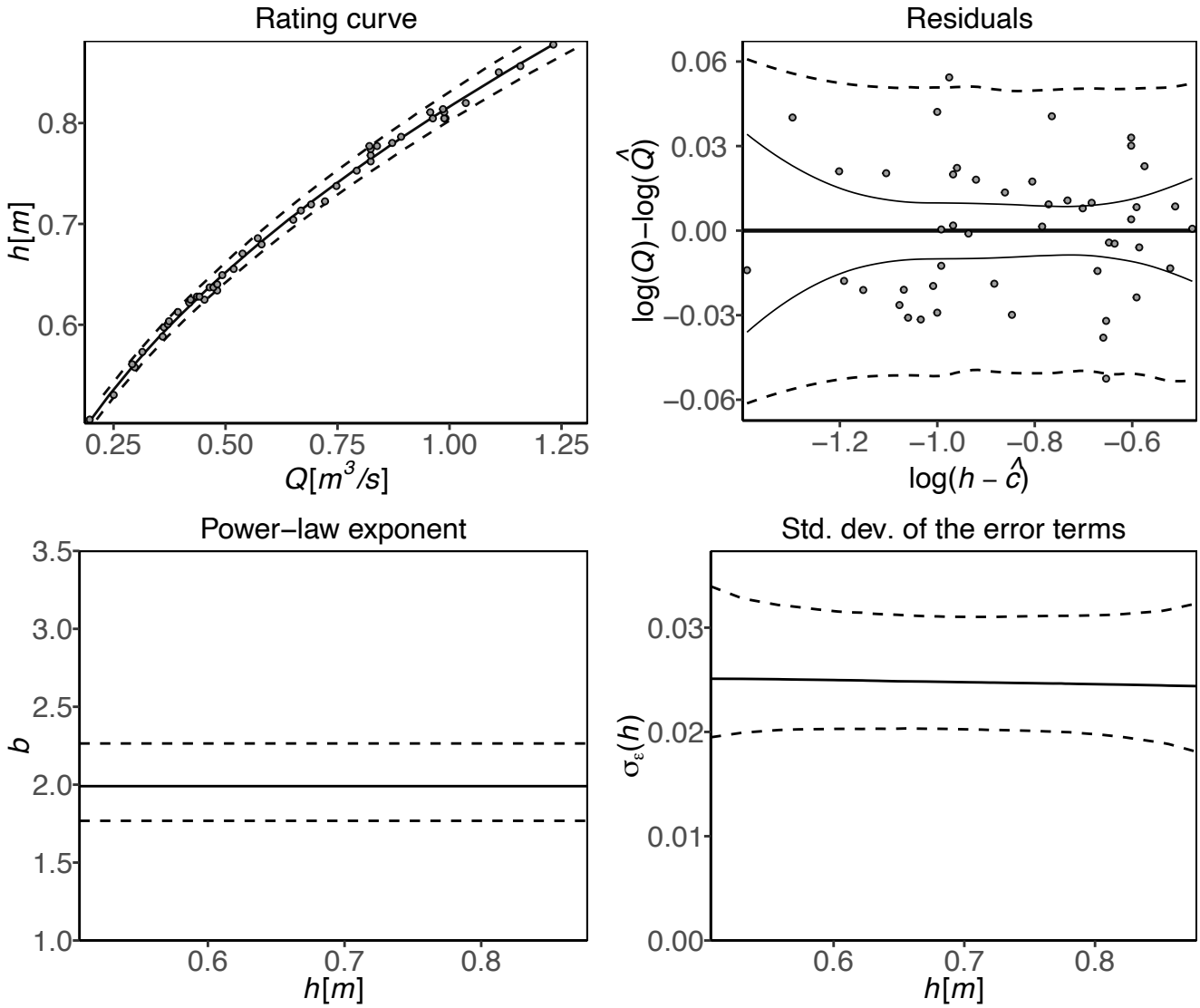
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.20	[3.02; 3.34]	3036	1.00
b	1.84	[1.83; 1.84]	6691	1.00
c	0.28	[0.22; 0.30]	1874	1.00
σ_β	0.11	[0.00; 0.51]	1547	1.00
ϕ_β	20.44	[0.85; 19463.30]	1292	1.01
σ_η	0.08	[0.00; 0.42]	1301	1.01
η_1	−7.37	[−7.90; −6.75]	1451	1.01
η_2	−7.43	[−9.25; −5.63]	1752	1.00
η_3	−7.49	[−9.97; −4.92]	1860	1.00
η_4	−7.62	[−10.63; −4.44]	1763	1.00
η_5	−7.72	[−11.28; −3.88]	1753	1.00
η_6	−7.81	[−11.91; −3.47]	1757	1.00

Yaqui, Usa – GPLM0



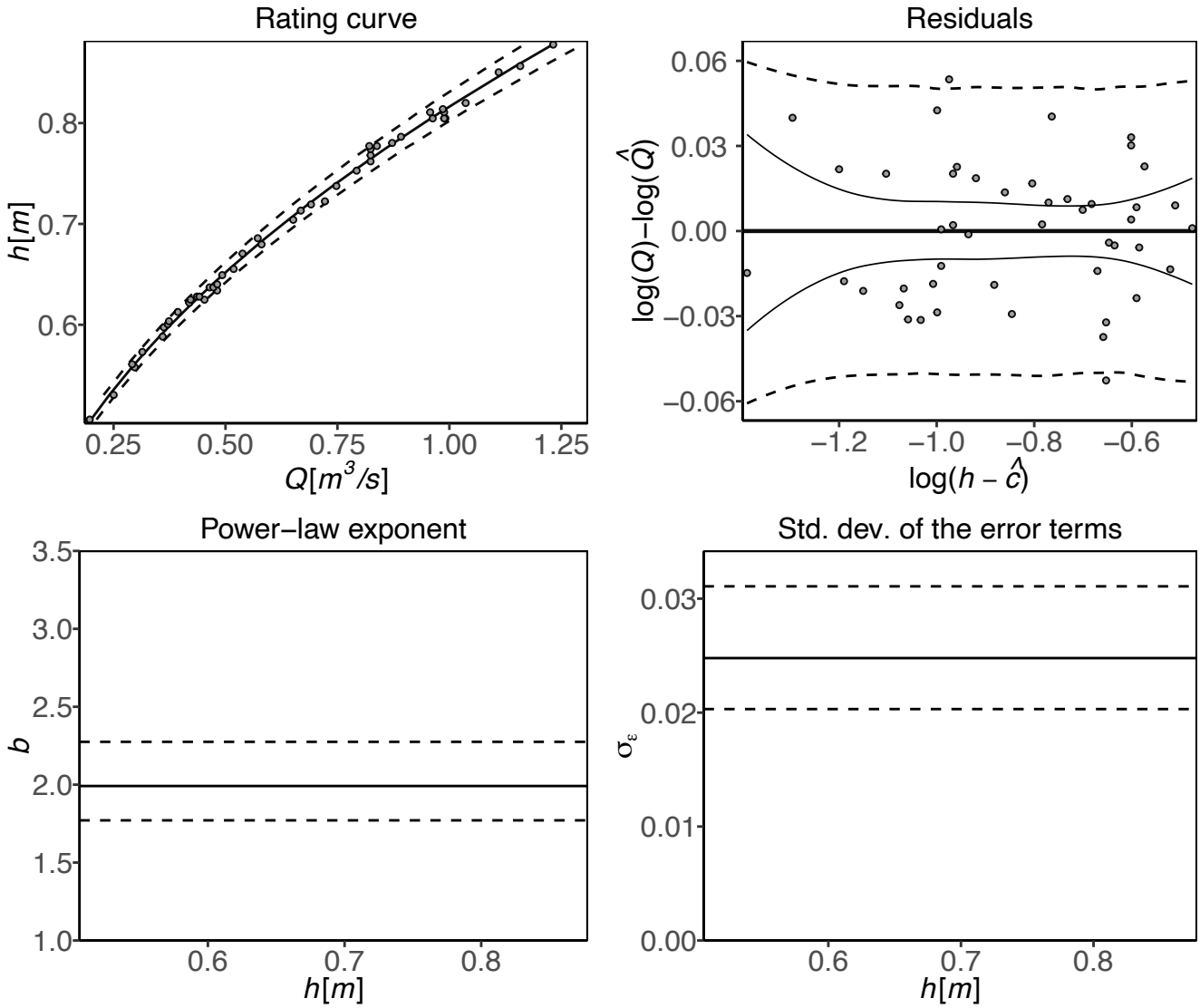
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.20	[3.00; 3.35]	3406	1.00
b	1.84	[1.83; 1.84]	6751	1.00
c	0.28	[0.22; 0.30]	3238	1.00
σ_ε	0.02	[0.02; 0.03]	3454	1.00
σ_β	0.33	[0.06; 0.73]	1777	1.00
ϕ_β	17.85	[0.77; 15654.64]	2005	1.00

Yaqui, Usa – PLM



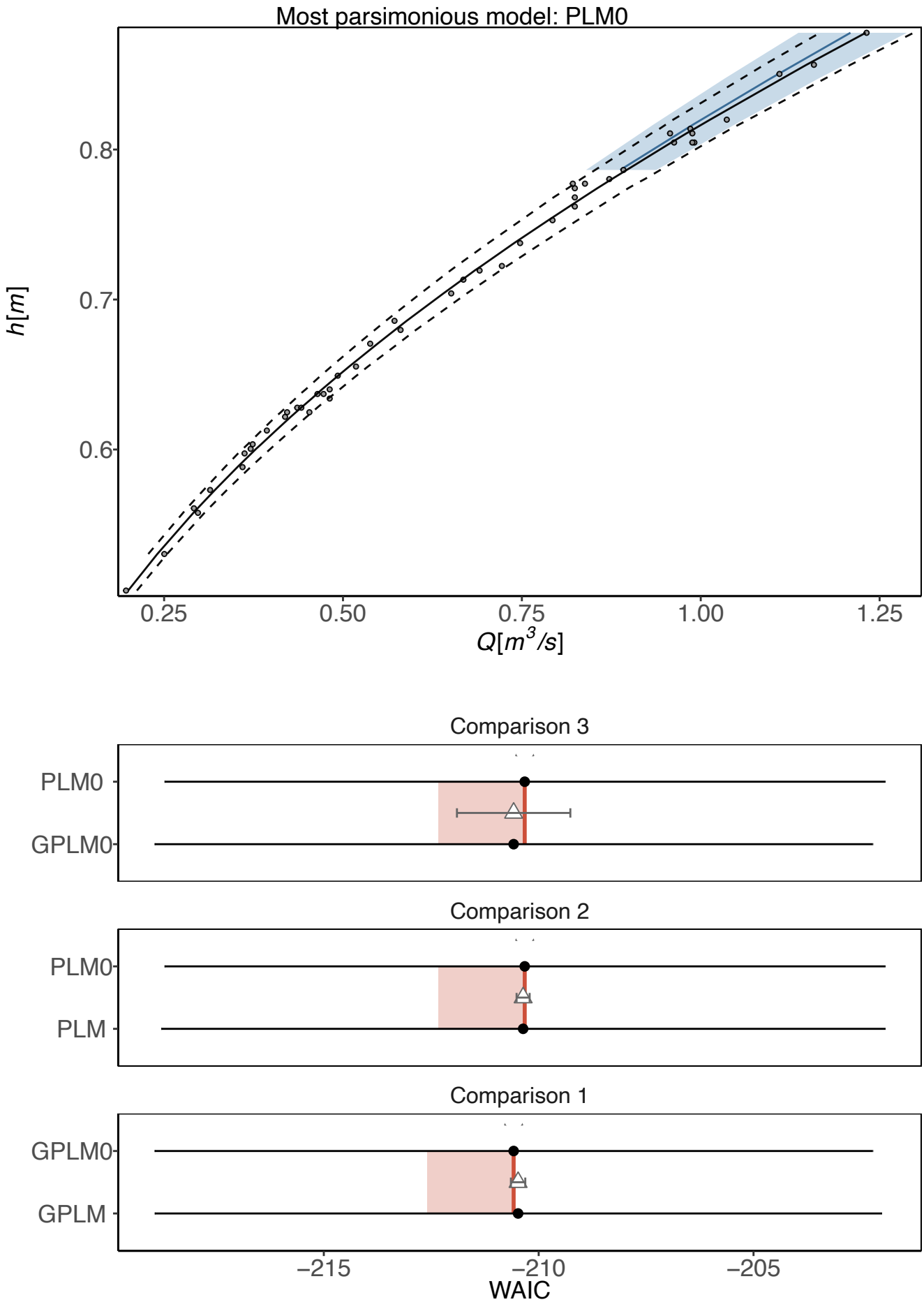
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.17	[2.99; 3.29]	3583	1.00
b	1.99	[1.77; 2.26]	2614	1.00
c	0.26	[0.20; 0.30]	2579	1.00
σ_η	0.07	[0.00; 0.39]	1657	1.00
η_1	–7.37	[–7.88; –6.77]	2279	1.00
η_2	–7.38	[–9.21; –5.57]	2675	1.00
η_3	–7.50	[–10.10; –4.93]	2566	1.00
η_4	–7.60	[–10.70; –4.37]	2852	1.00
η_5	–7.69	[–11.45; –3.98]	2762	1.00
η_6	–7.79	[–11.98; –3.47]	2732	1.00

Yaqui, Usa – PLM0



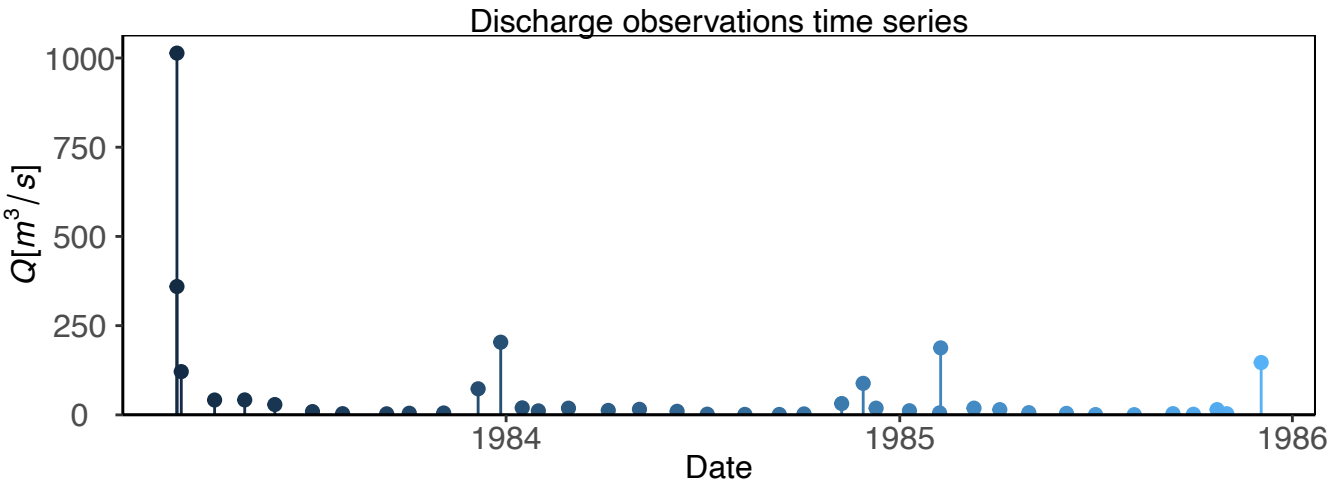
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.17	[2.98; 3.28]	9516	1.00
b	1.99	[1.77; 2.27]	8411	1.00
c	0.26	[0.20; 0.30]	8376	1.00
σ_ε	0.02	[0.02; 0.03]	9538	1.00

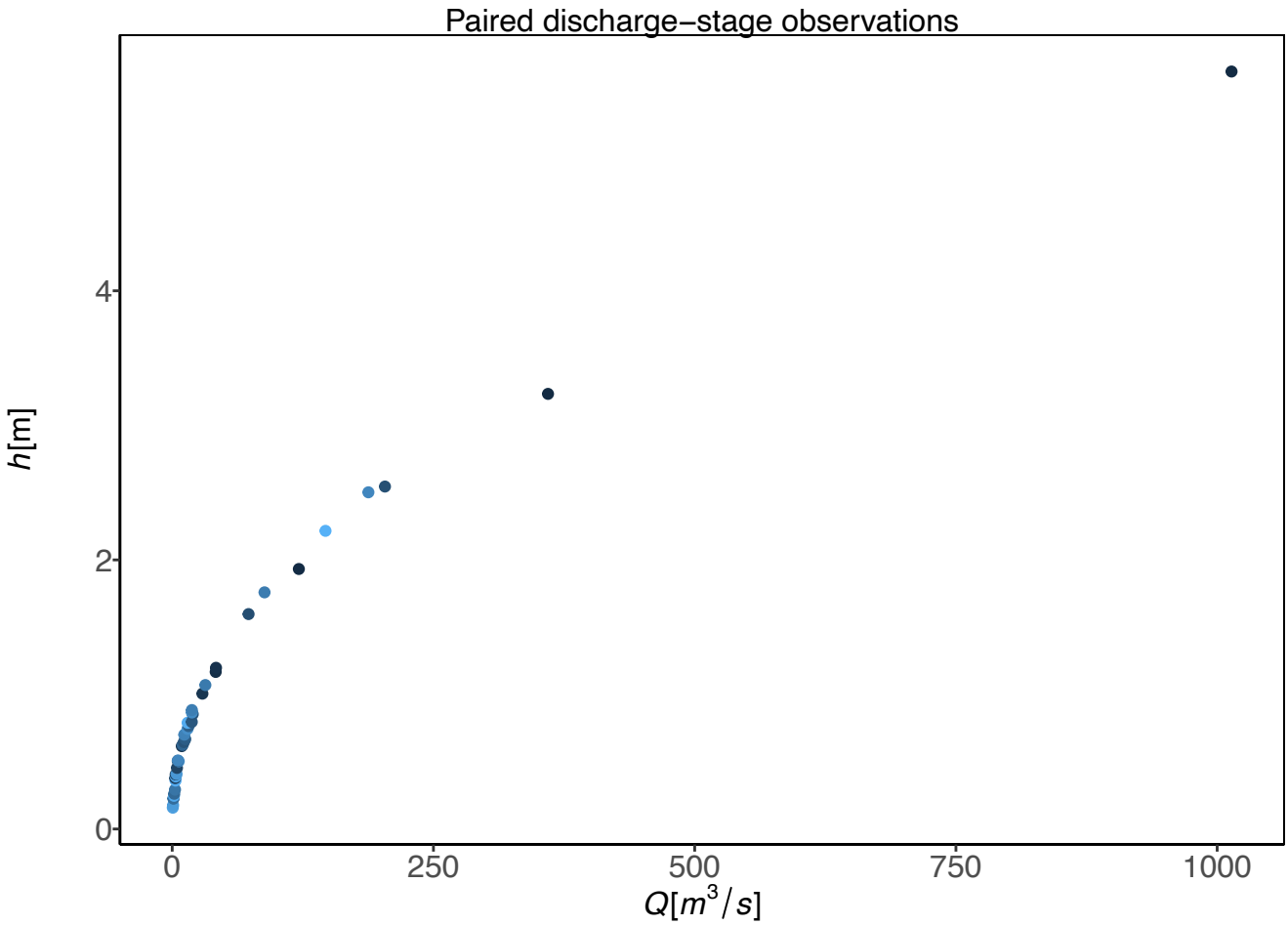
Power−law tournament results for Yaqui, Usa



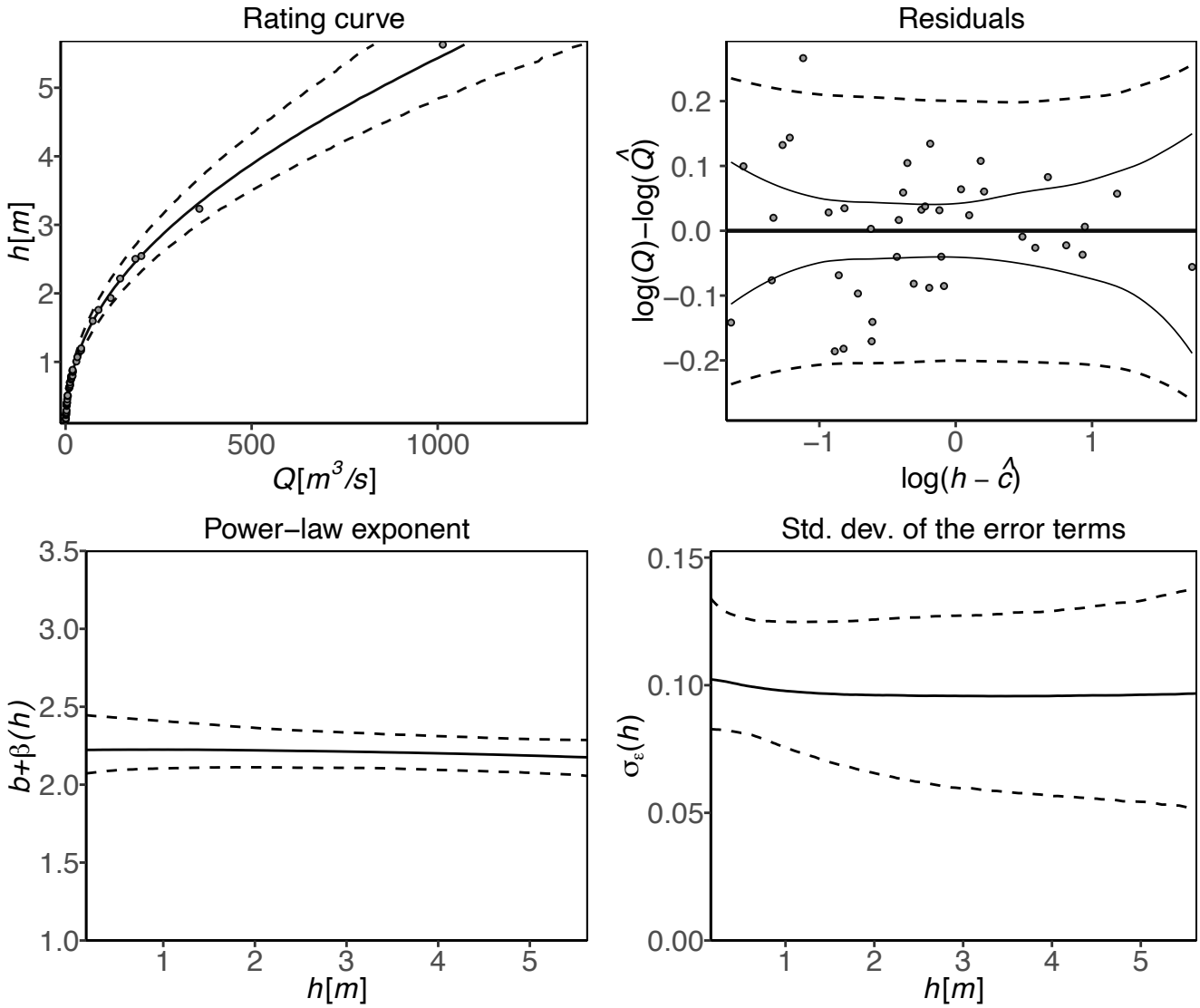
Station name:	Cow
Location:	California, USA
Station number:	11374000
Number of observations:	40
Start date:	1983–03–01
End date:	1985–12–03
Max. discharge (m^3/s):	1013.7
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.00	0.35
GPLM0	1.00	0.21
PLM	0.52	0.27
PLM0	1.36	0.18



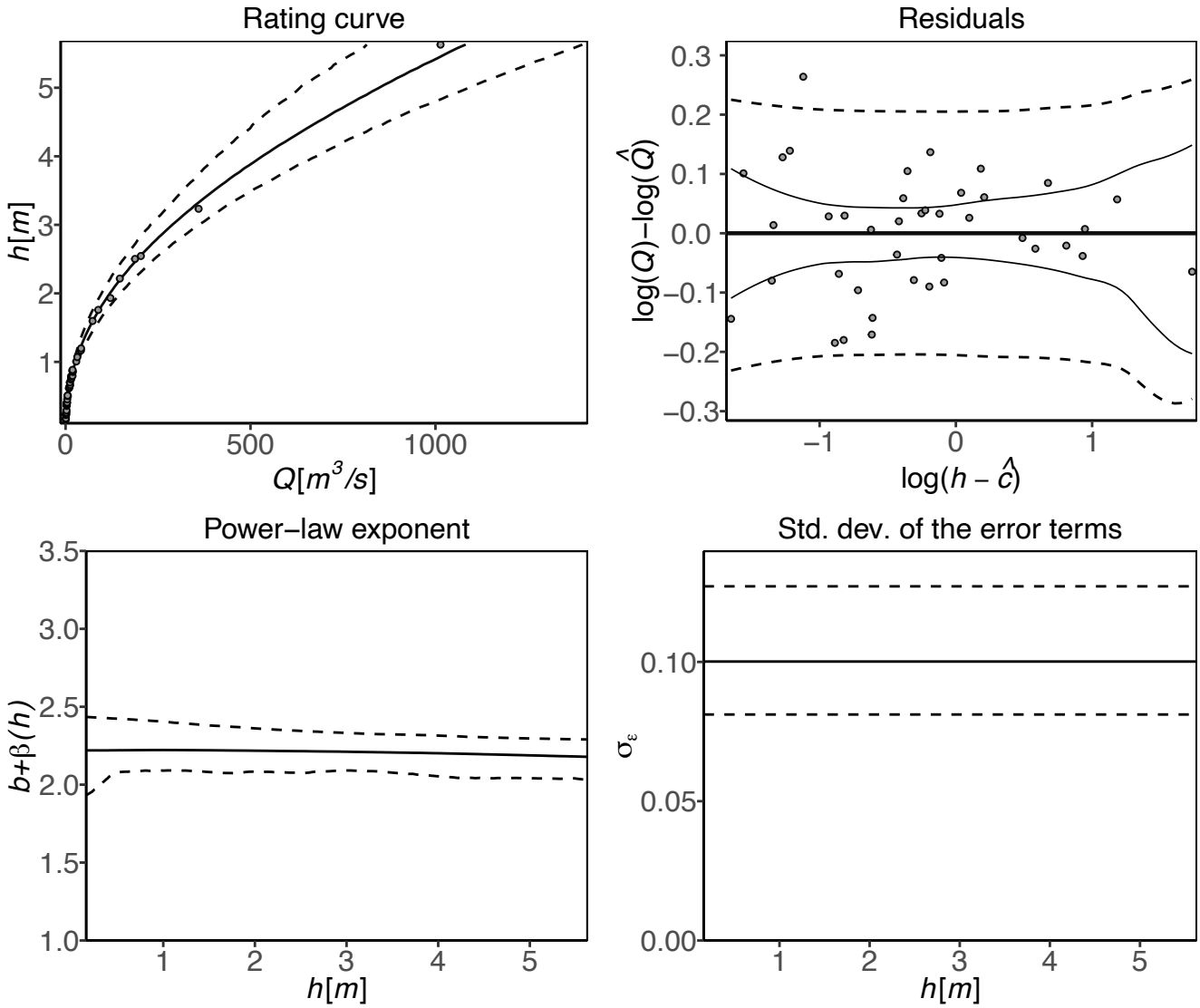


Cow, Usa – GPLM



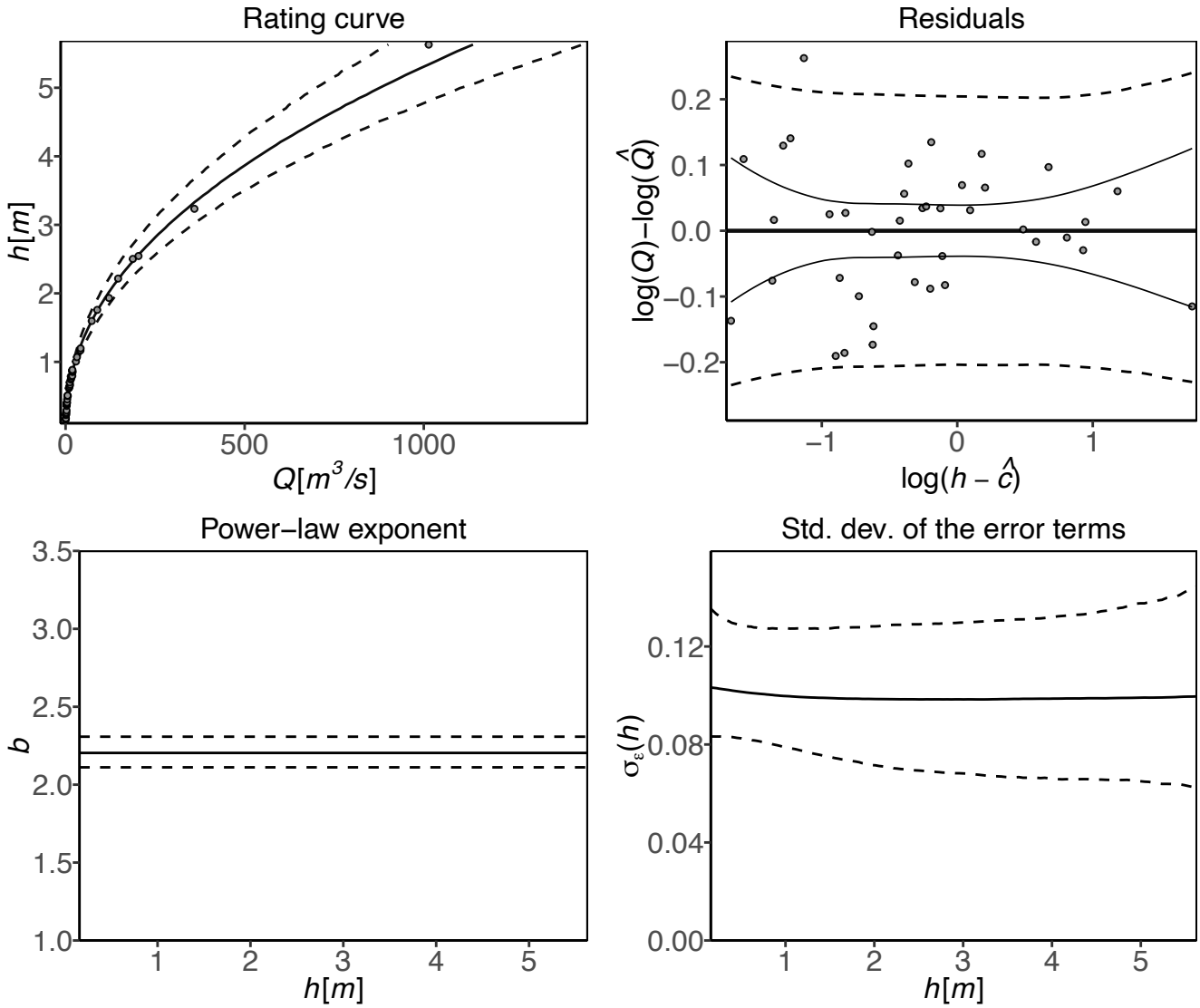
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	24.77	[21.89; 27.31]	2123	1.00
b	1.84	[1.83; 1.84]	9714	1.00
c	–0.03	[–0.08; 0.00]	1831	1.00
σ_β	0.31	[0.14; 0.77]	2240	1.00
ϕ_β	26.49	[3.00; 18312.95]	869	1.01
σ_η	0.10	[0.00; 0.56]	1750	1.00
η_1	–4.56	[–4.98; –4.02]	2199	1.00
η_2	–4.95	[–6.81; –2.91]	2595	1.00
η_3	–5.27	[–7.89; –2.42]	2528	1.00
η_4	–5.38	[–8.57; –1.75]	2198	1.00
η_5	–5.32	[–9.18; –1.24]	2251	1.00
η_6	–5.31	[–9.56; –0.82]	2190	1.00

Cow, Usa – GPLM0



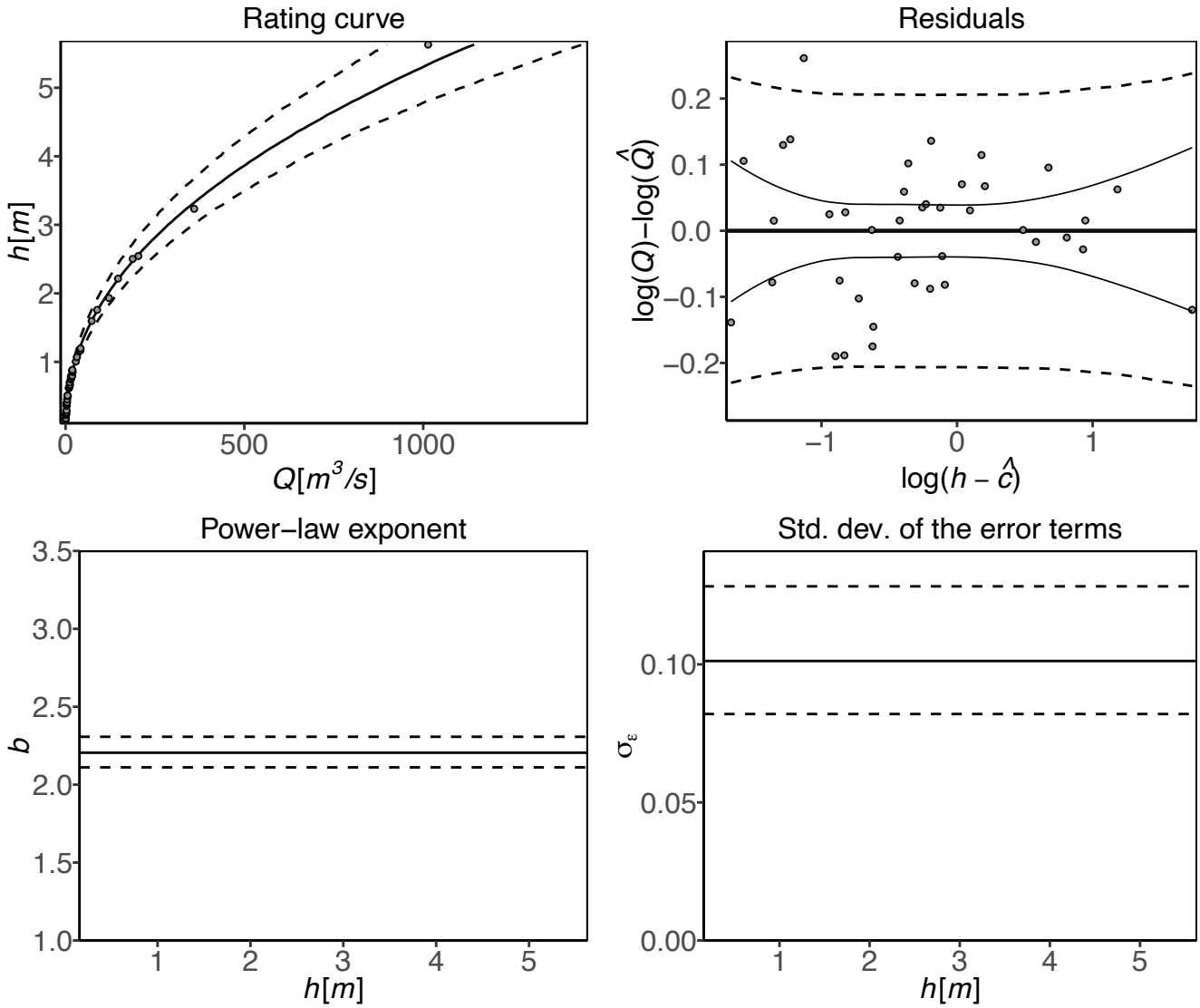
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	24.76	[21.93; 28.79]	1641	1.01
b	1.84	[1.83; 1.84]	12918	1.00
c	–0.03	[–0.08; 0.02]	1224	1.02
σ_ε	0.10	[0.08; 0.13]	4650	1.00
σ_β	0.55	[0.38; 0.87]	5002	1.00
ϕ_β	30.88	[1.10; 12164.04]	1334	1.01

Cow, Usa – PLM



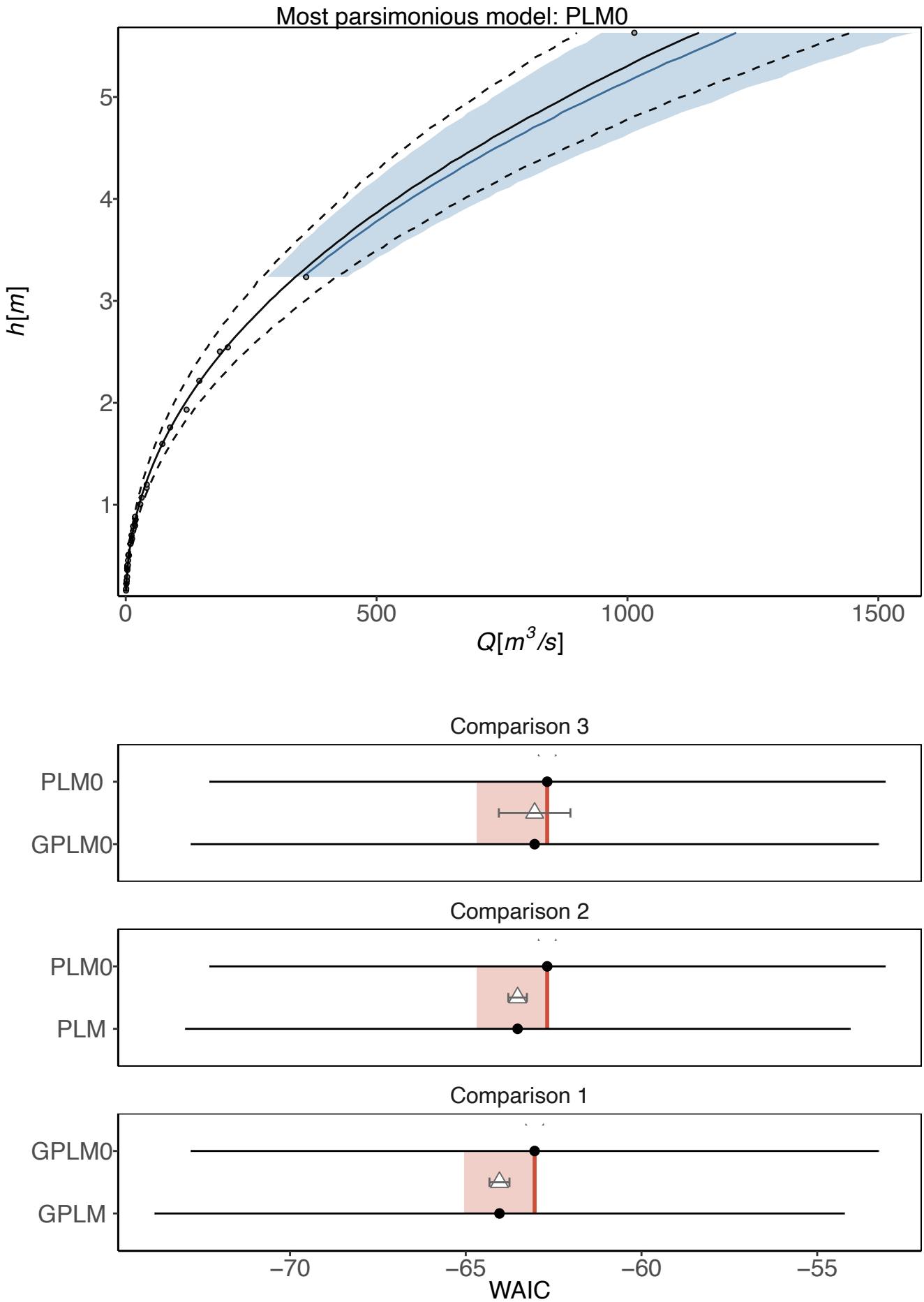
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	24.94	[22.70; 27.10]	2863	1.00
b	2.20	[2.11; 2.31]	2951	1.00
c	–0.03	[–0.06; 0.00]	2569	1.00
σ_η	0.09	[0.00; 0.51]	1626	1.00
η_1	–4.54	[–4.97; –4.00]	2500	1.00
η_2	–4.88	[–6.76; –2.93]	2817	1.00
η_3	–5.13	[–7.84; –2.30]	2926	1.00
η_4	–5.11	[–8.43; –1.76]	2723	1.00
η_5	–5.08	[–8.79; –1.18]	2817	1.00
η_6	–4.98	[–9.18; –0.71]	2843	1.00

Cow, Usa – PLM0



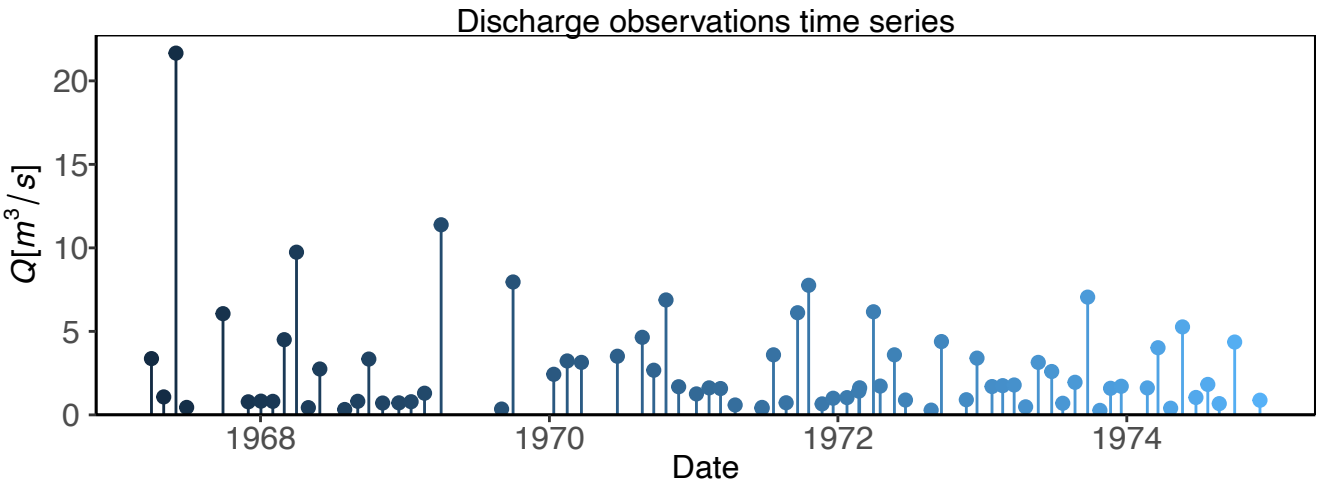
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	24.90	[22.69; 27.10]	9371	1.00
b	2.21	[2.11; 2.31]	9596	1.00
c	–0.03	[–0.06; 0.00]	8775	1.00
σ_ε	0.10	[0.08; 0.13]	9311	1.00

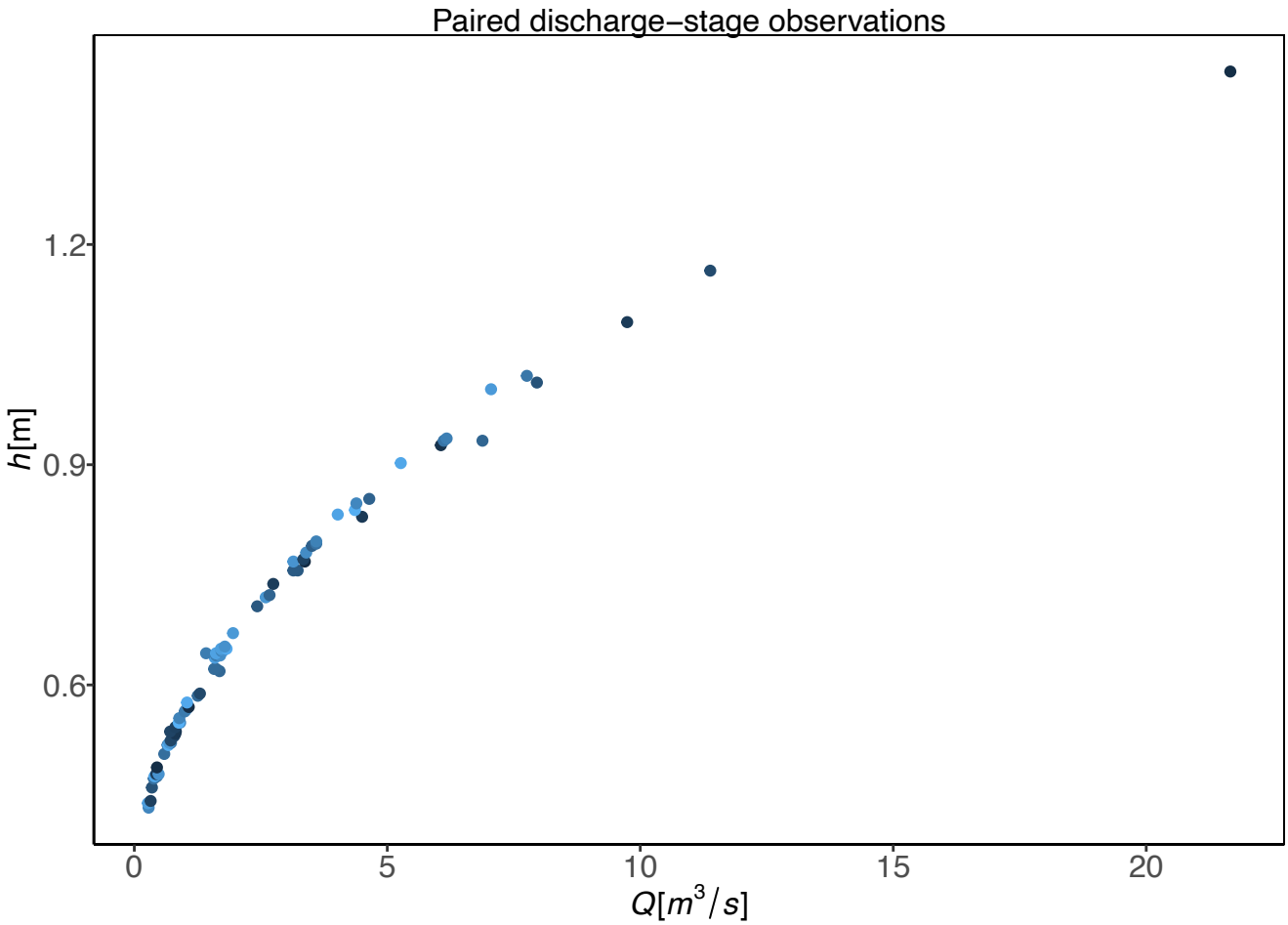
Power−law tournament results for Cow, Usa



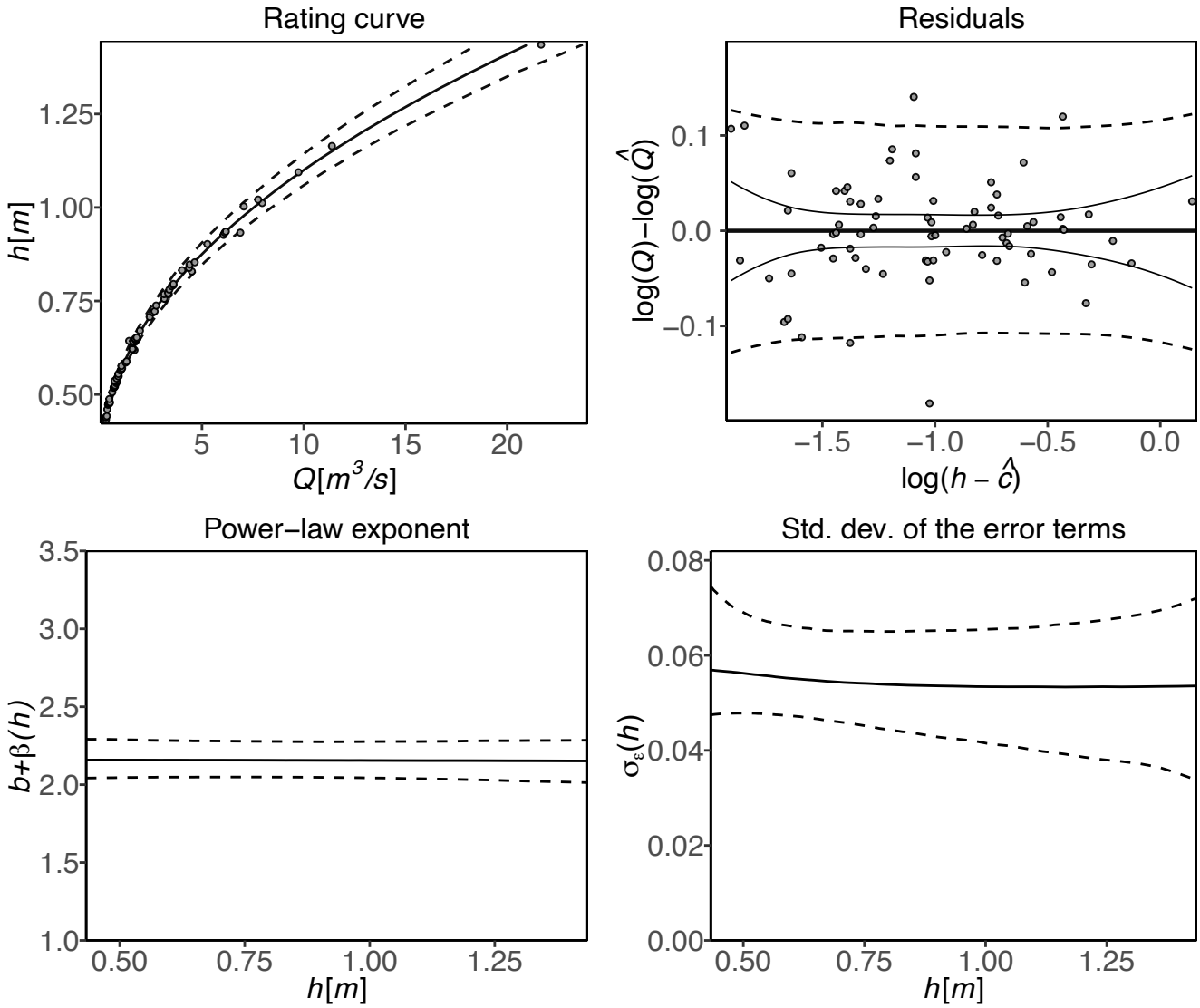
Station name:	Prosser
Location:	California, USA
Station number:	10340500
Number of observations:	74
Start date:	1967–03–31
End date:	1974–12–04
Max. discharge (m^3/s):	21.7
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.24	0.26
GPLM0	0.75	0.20
PLM	0.00	0.29
PLM0	0.31	0.25



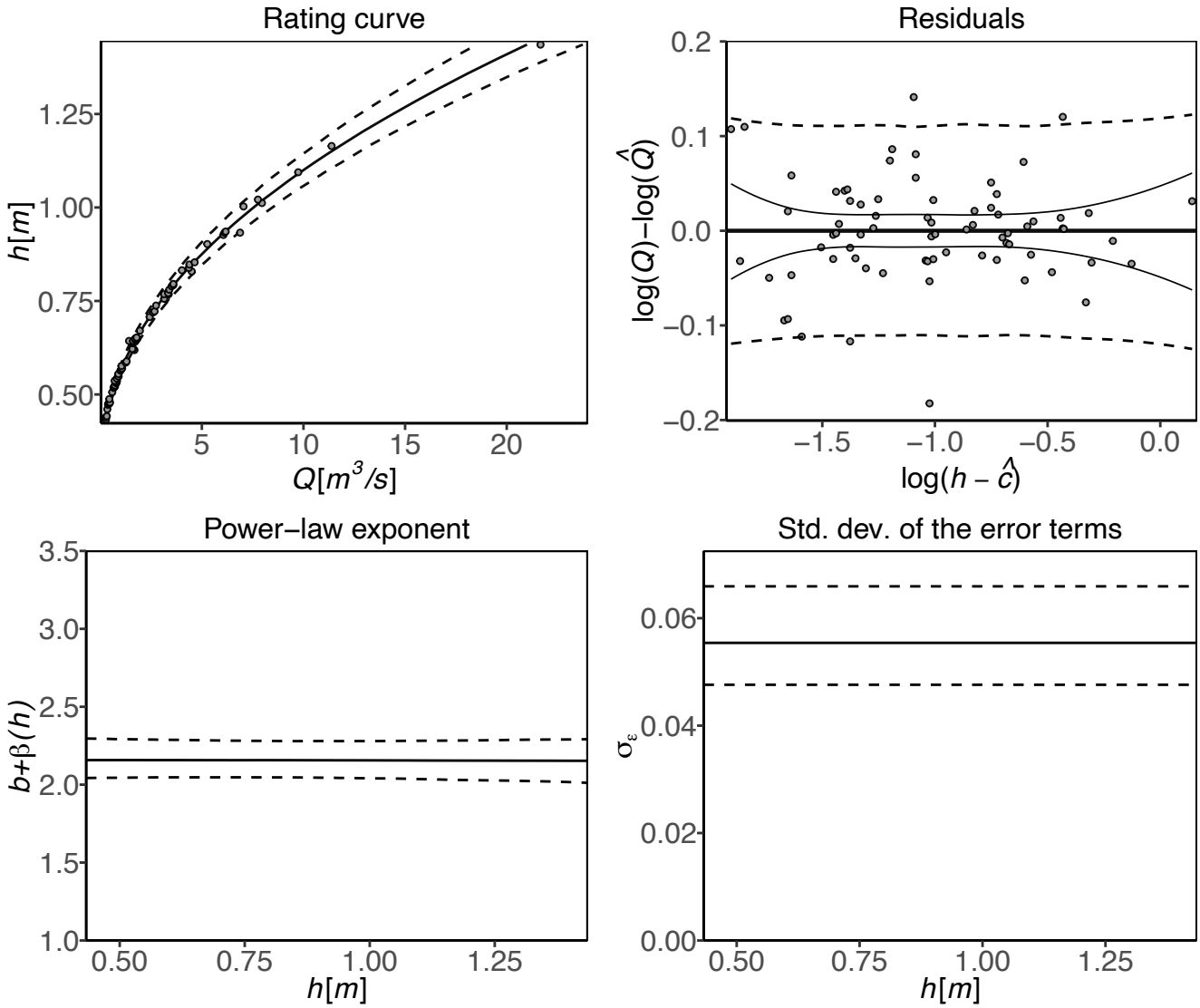


Prosser, Usa – GPLM



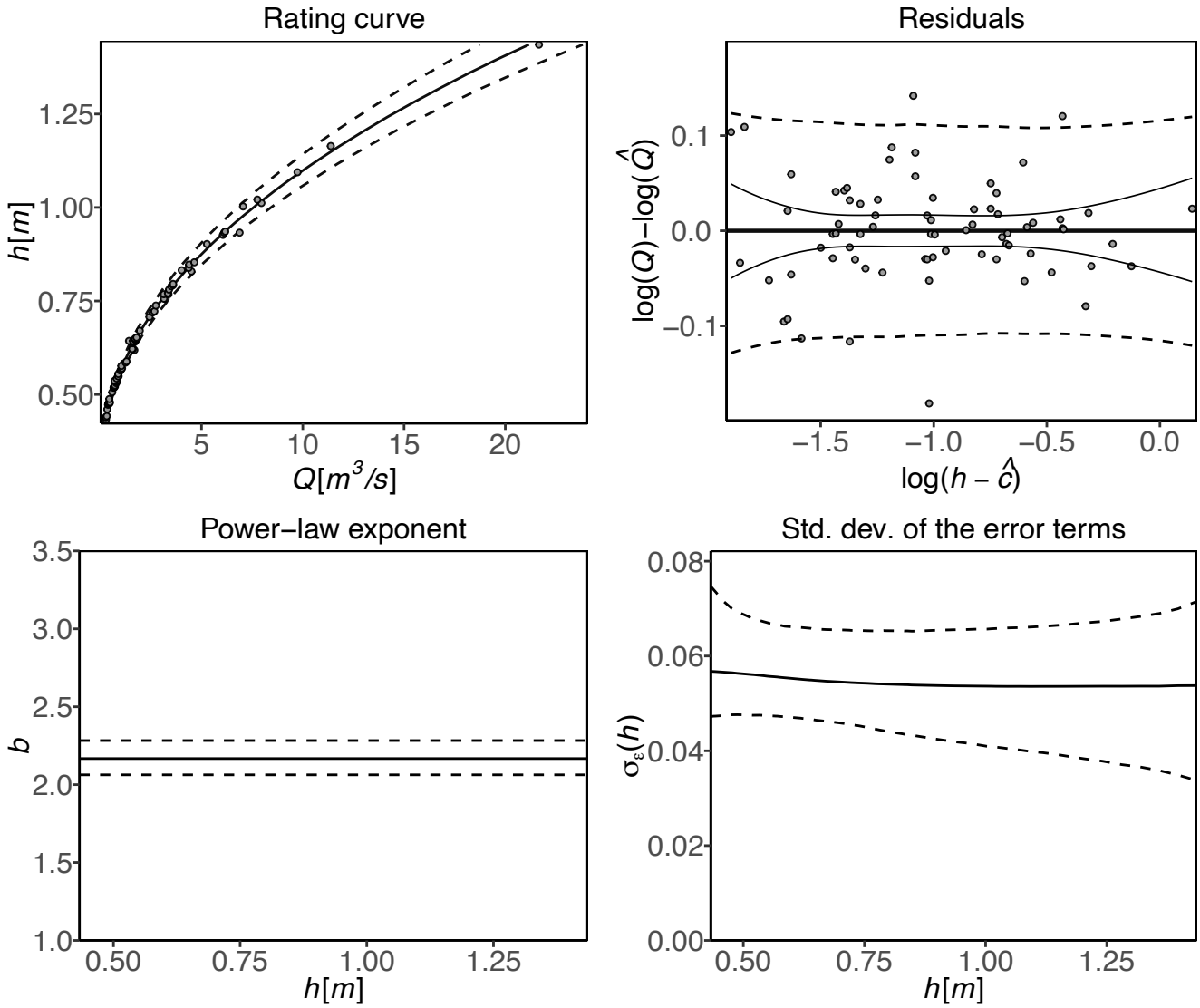
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	15.50	[14.76; 16.13]	3466	1.00
b	1.84	[1.83; 1.84]	9930	1.00
c	0.28	[0.26; 0.30]	1735	1.00
σ_β	0.28	[0.12; 0.72]	2425	1.00
ϕ_β	25.69	[1.40; 15623.92]	1270	1.00
σ_η	0.10	[0.00; 0.46]	1304	1.00
η_1	–5.73	[–6.09; –5.19]	2612	1.00
η_2	–6.04	[–7.82; –4.23]	1972	1.00
η_3	–6.46	[–8.91; –3.75]	1922	1.00
η_4	–6.62	[–9.69; –3.18]	2206	1.00
η_5	–6.66	[–10.24; –2.73]	2142	1.00
η_6	–6.67	[–10.67; –2.36]	2049	1.00

Prosser, Usa – GPLM0



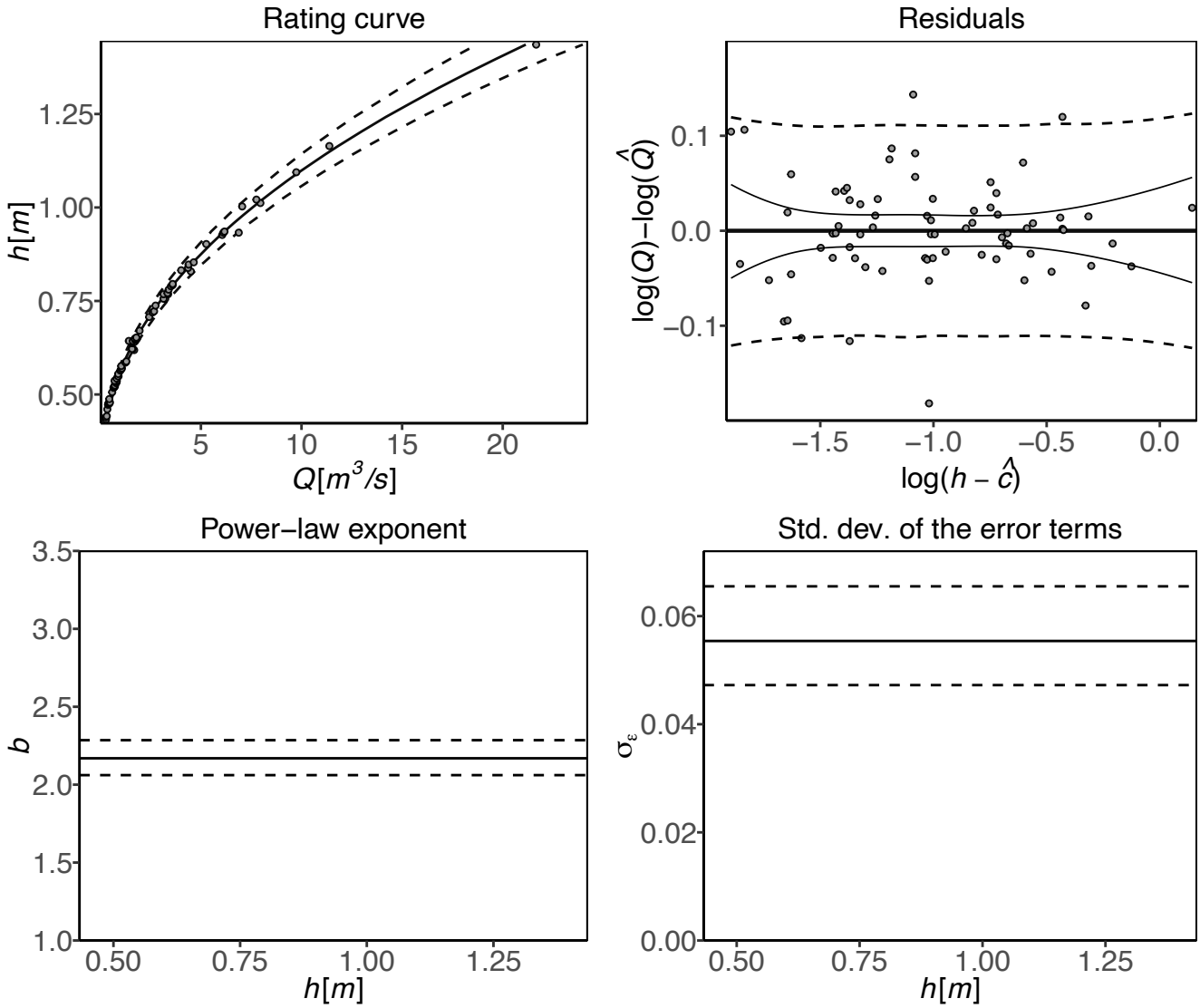
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	15.48	[14.74; 16.13]	4589	1.00
b	1.84	[1.83; 1.84]	11934	1.00
c	0.28	[0.26; 0.30]	3752	1.00
σ_ε	0.06	[0.05; 0.07]	5101	1.00
σ_β	0.53	[0.35; 0.85]	5429	1.00
ϕ_β	25.34	[1.47; 19073.03]	2121	1.00

Prosser, Usa – PLM



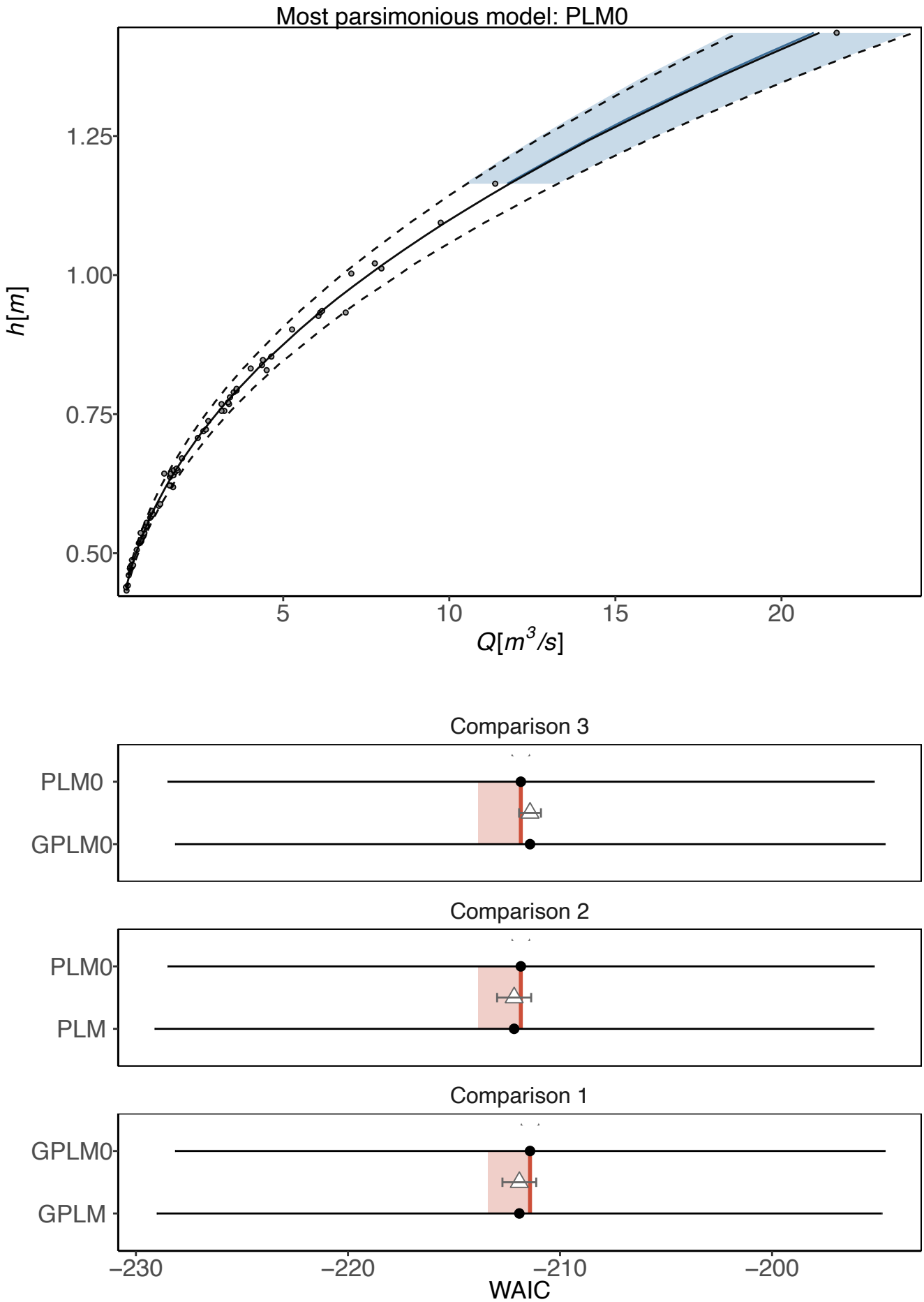
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	15.51	[15.03; 15.99]	8286	1.00
b	2.17	[2.06; 2.28]	2577	1.00
c	0.28	[0.26; 0.30]	2464	1.00
σ_η	0.09	[0.00; 0.45]	1273	1.00
η_1	–5.74	[–6.11; –5.19]	2796	1.00
η_2	–5.97	[–7.74; –4.10]	2287	1.00
η_3	–6.38	[–8.78; –3.45]	2420	1.00
η_4	–6.52	[–9.58; –3.07]	2595	1.00
η_5	–6.58	[–10.09; –2.63]	2747	1.00
η_6	–6.59	[–10.59; –2.15]	2775	1.00

Prosser, Usa – PLM0



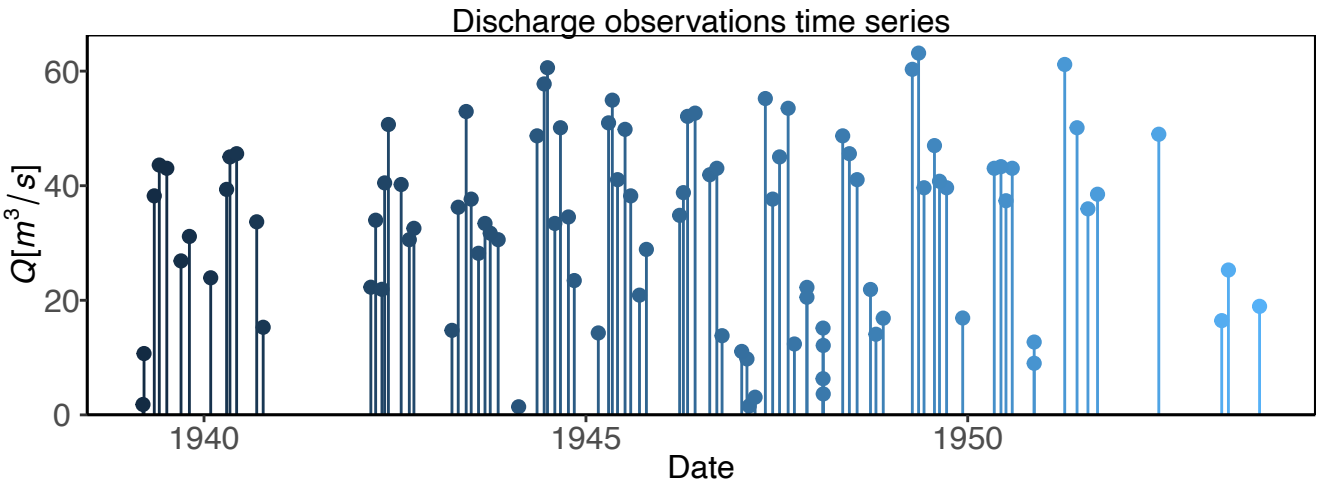
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	15.51	[15.03; 16.00]	17159	1.00
b	2.17	[2.06; 2.29]	9243	1.00
c	0.28	[0.26; 0.30]	9367	1.00
σ_ε	0.06	[0.05; 0.07]	9730	1.00

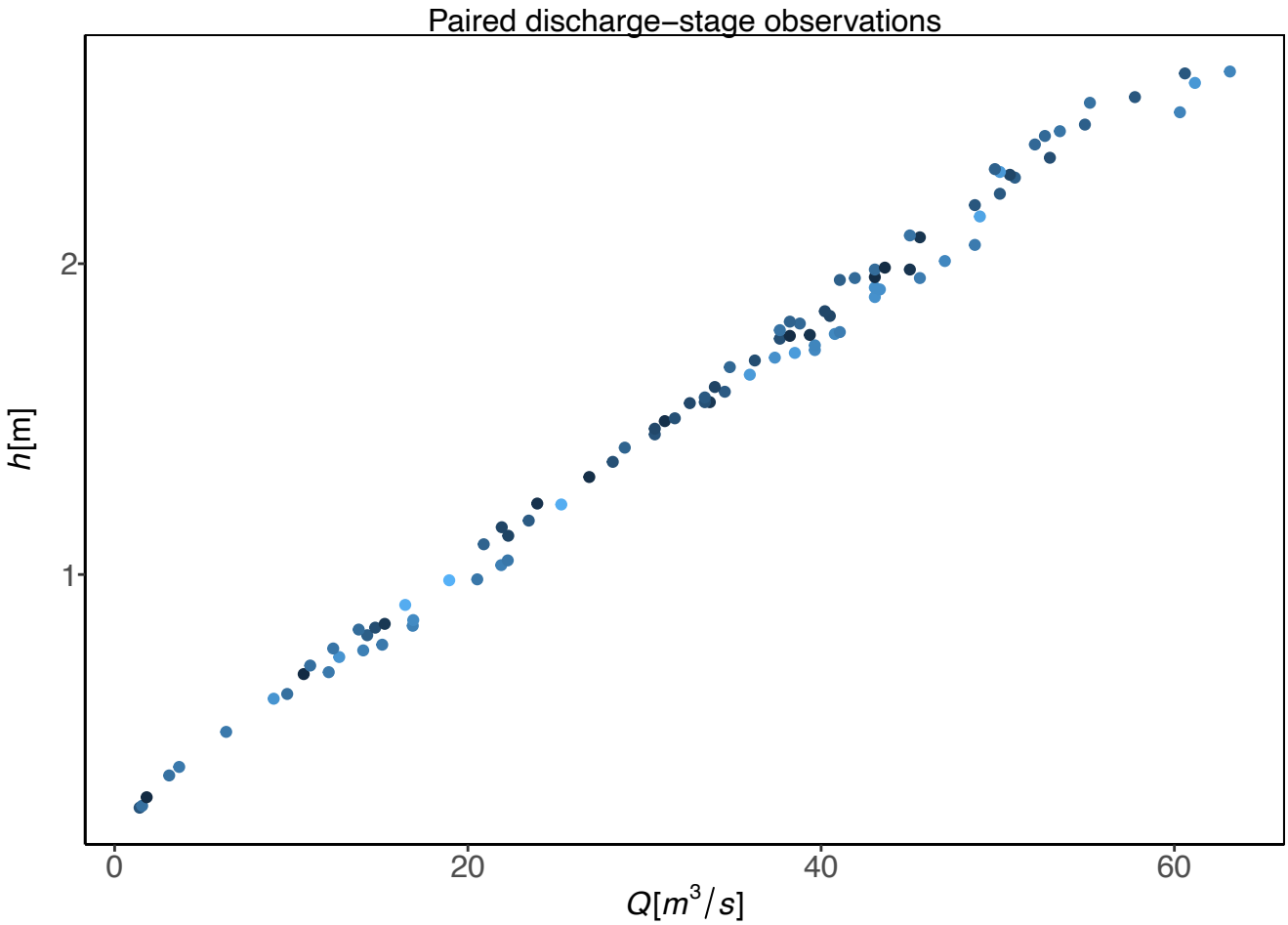
Power−law tournament results for Prosser, Usa



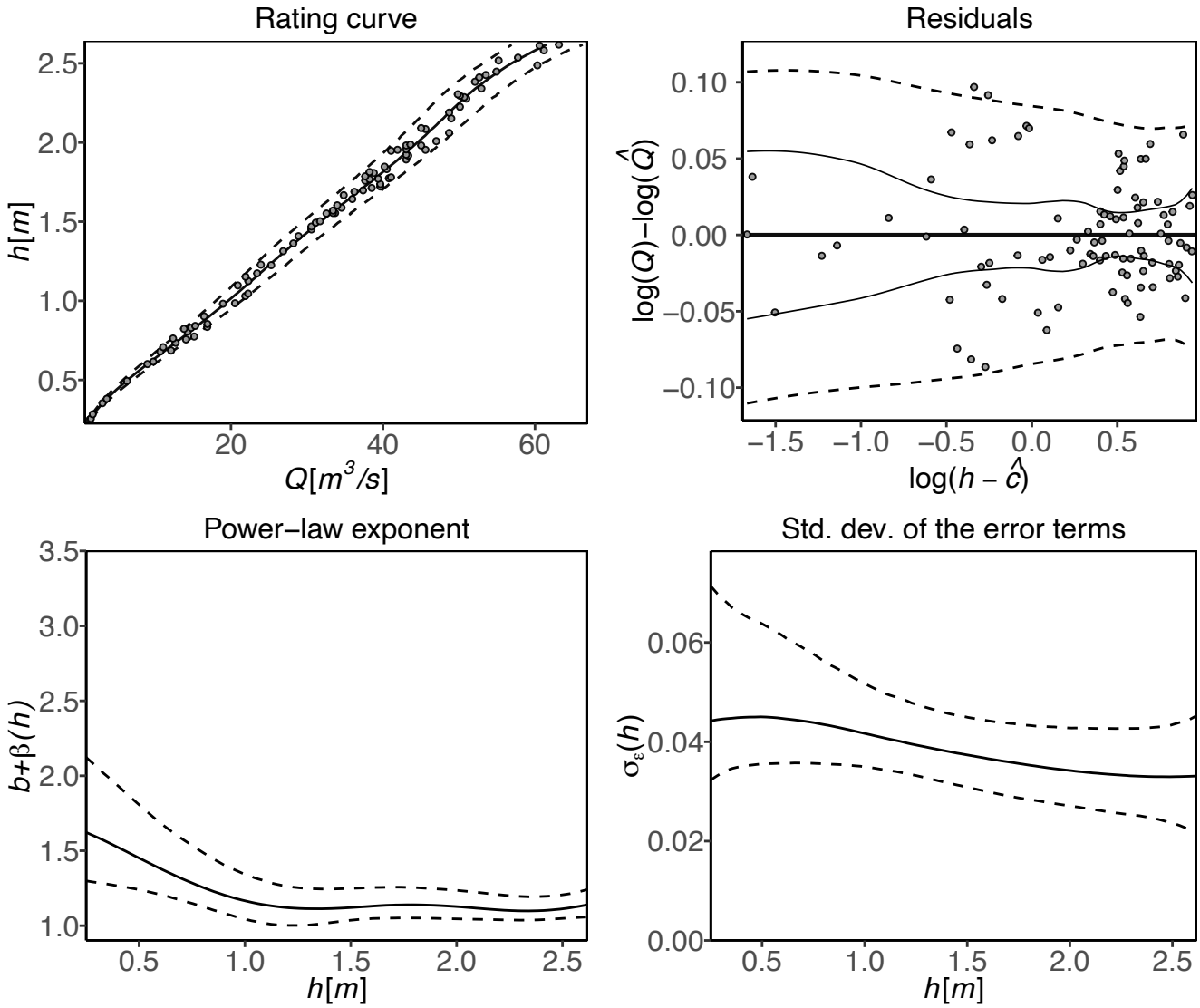
Station name:	Turlock
Location:	California, USA
Station number:	11289500
Number of observations:	94
Start date:	1939–03–15
End date:	1953–10–28
Max. discharge (m^3/s):	63.1
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	0.96
GPLM0	6.32	0.04
PLM	16.74	0.00
PLM0	51.24	0.00



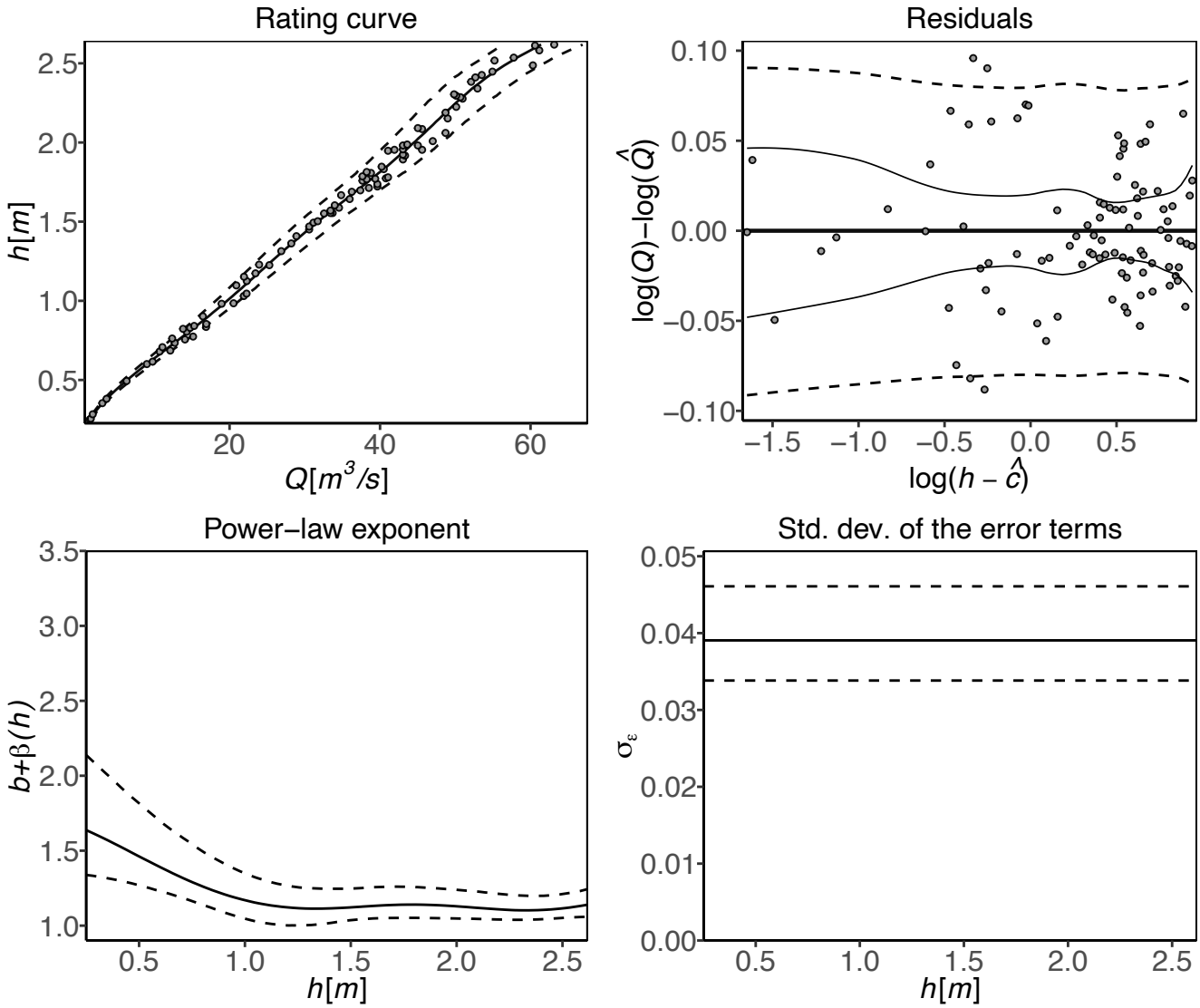


Turlock, Usa – GPLM



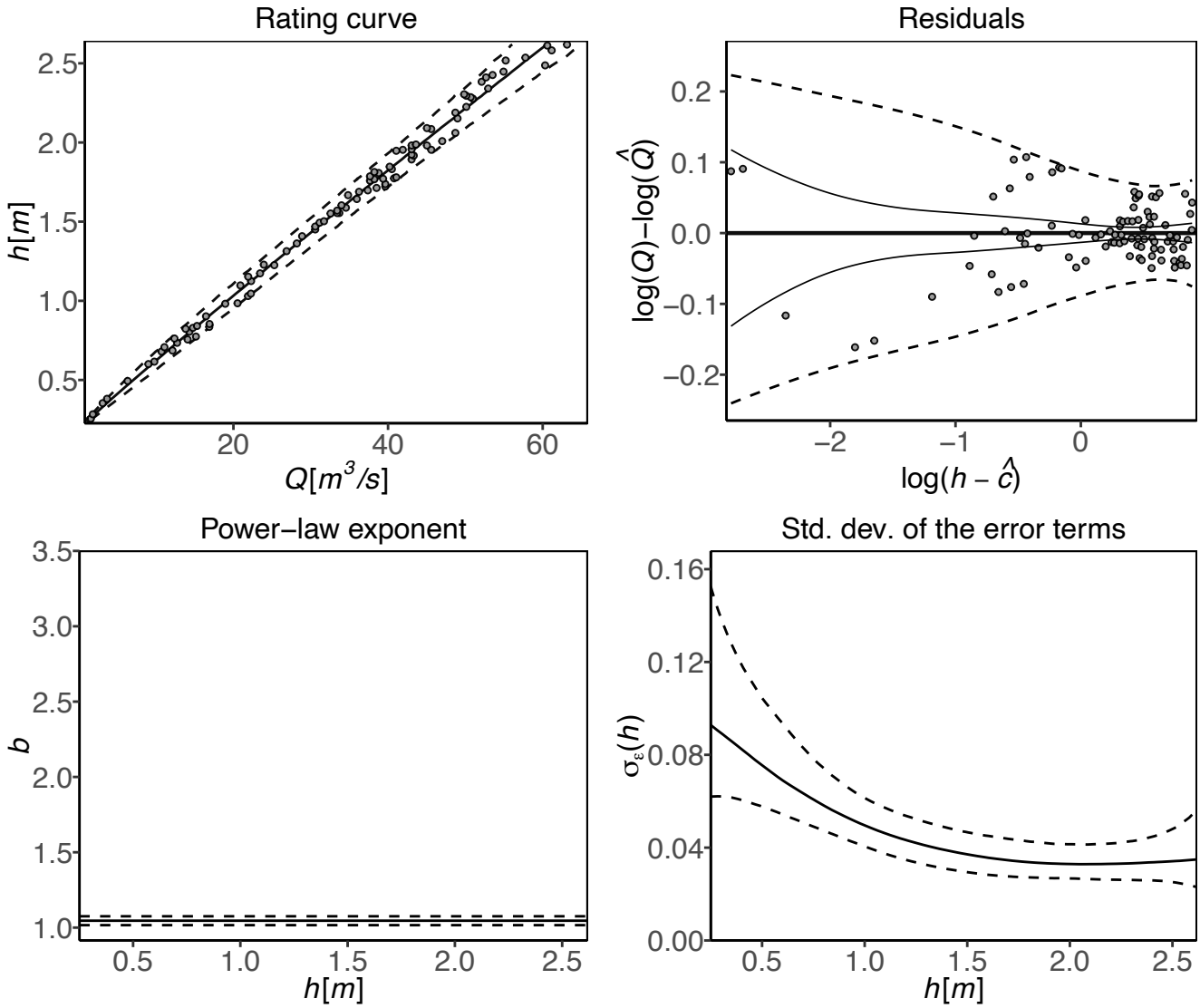
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	21.13	[18.41; 22.99]	1932	1.00
b	1.83	[1.83; 1.84]	9286	1.00
c	0.06	[–0.05; 0.14]	1791	1.00
σ_β	0.46	[0.27; 0.91]	2239	1.00
ϕ_β	1.51	[0.87; 3.60]	1318	1.00
σ_η	0.28	[0.03; 0.70]	897	1.06
η_1	–6.24	[–6.87; –5.28]	1709	1.01
η_2	–5.98	[–7.76; –4.51]	1698	1.00
η_3	–6.73	[–8.96; –4.70]	1712	1.01
η_4	–7.91	[–10.40; –5.35]	1590	1.02
η_5	–8.32	[–11.16; –5.50]	1913	1.00
η_6	–8.35	[–11.76; –5.31]	2009	1.00

Turlock, Usa – GPLM0



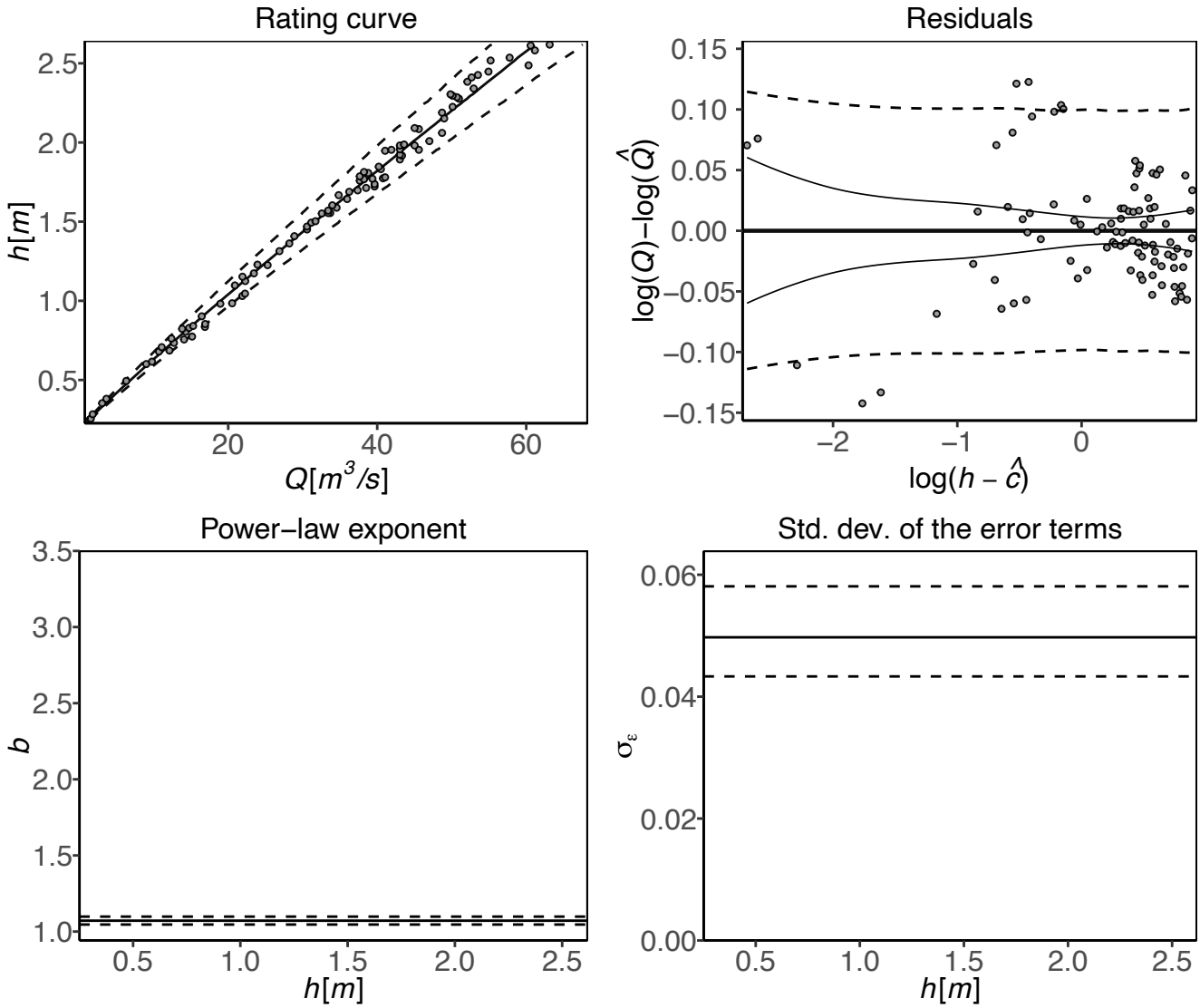
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	21.05	[18.33; 22.84]	4052	1.00
b	1.83	[1.83; 1.84]	12253	1.00
c	0.06	[–0.05; 0.13]	3957	1.00
σ_ε	0.04	[0.03; 0.05]	5127	1.00
σ_β	0.68	[0.52; 0.97]	5131	1.00
ϕ_β	1.50	[0.85; 3.47]	3031	1.00

Turlock, Usa – PLM



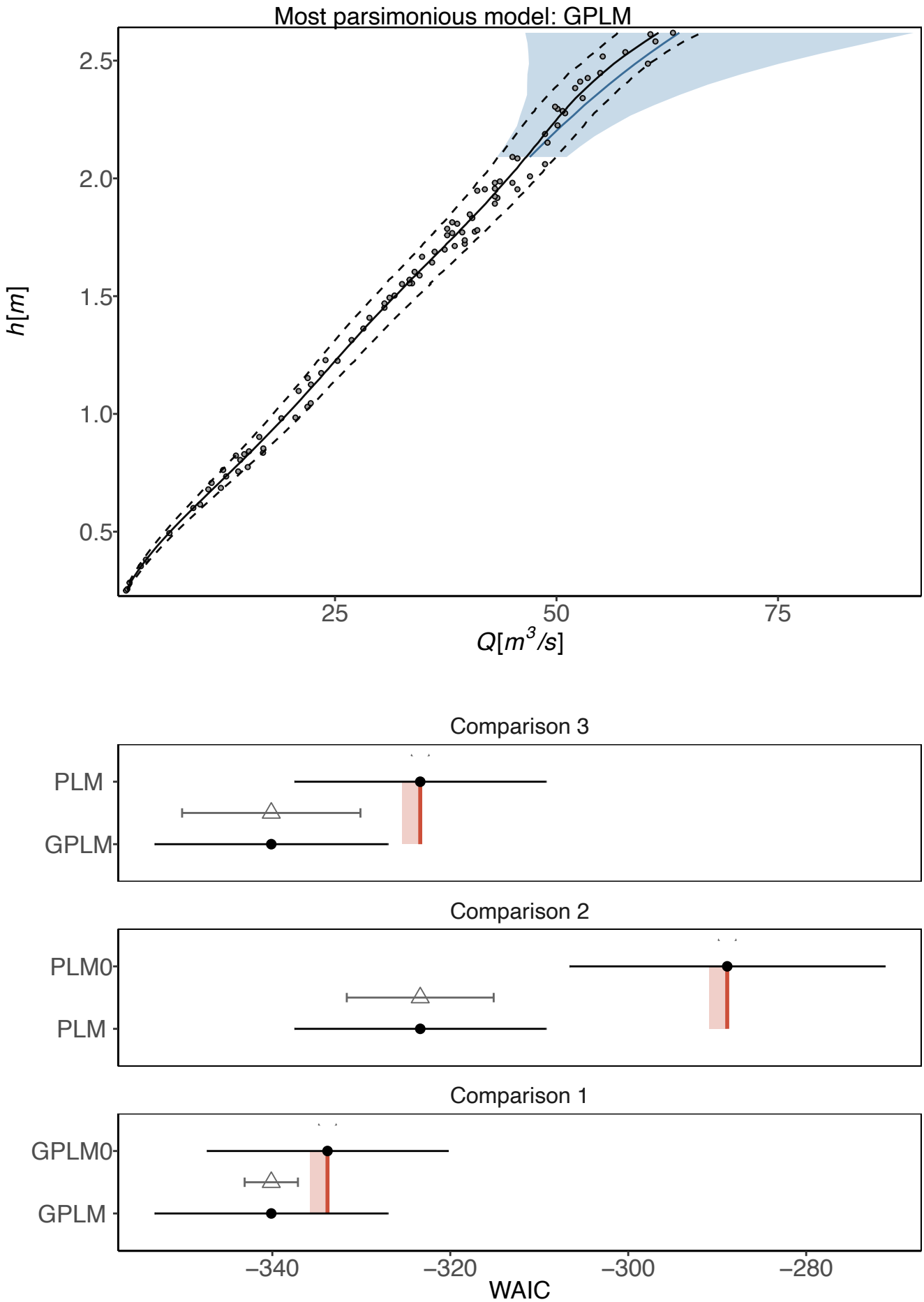
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	23.90	[23.38; 24.43]	2844	1.00
b	1.05	[1.02; 1.08]	3038	1.00
c	0.19	[0.18; 0.20]	2342	1.00
σ_η	0.56	[0.29; 1.01]	1806	1.00
η_1	–4.75	[–5.56; –3.76]	2104	1.00
η_2	–5.48	[–7.05; –4.18]	2070	1.00
η_3	–7.28	[–9.18; –5.87]	2430	1.00
η_4	–8.57	[–10.89; –6.92]	2402	1.00
η_5	–8.43	[–11.18; –6.42]	2214	1.00
η_6	–8.22	[–11.36; –6.03]	2423	1.00

Turlock, Usa – PLM0



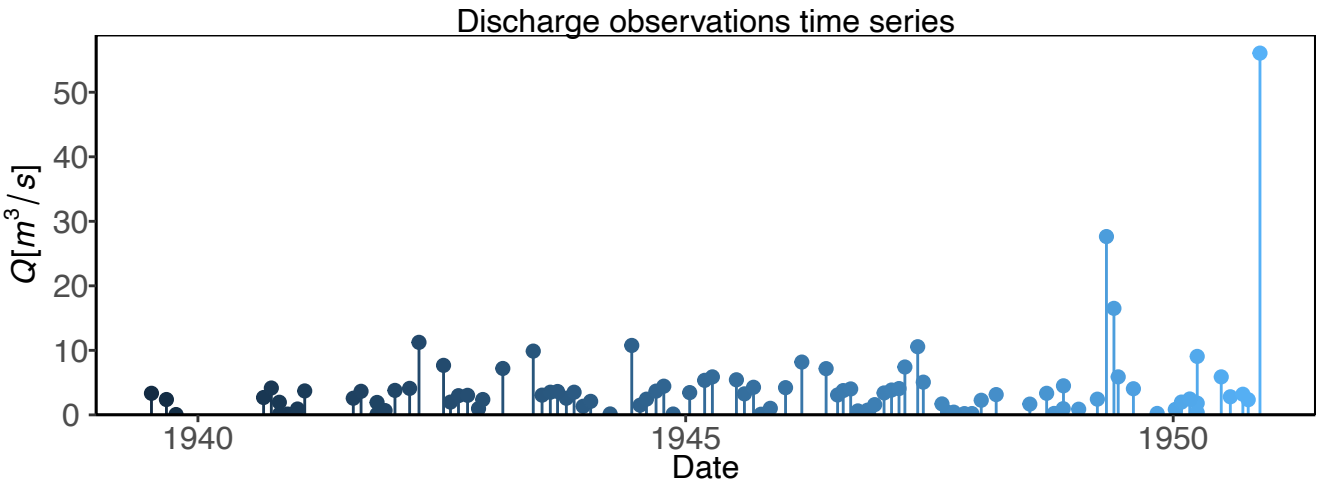
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	23.56	[23.14; 23.96]	10720	1.00
b	1.07	[1.05; 1.10]	10850	1.00
c	0.18	[0.17; 0.19]	9427	1.00
σ_ε	0.05	[0.04; 0.06]	9658	1.00

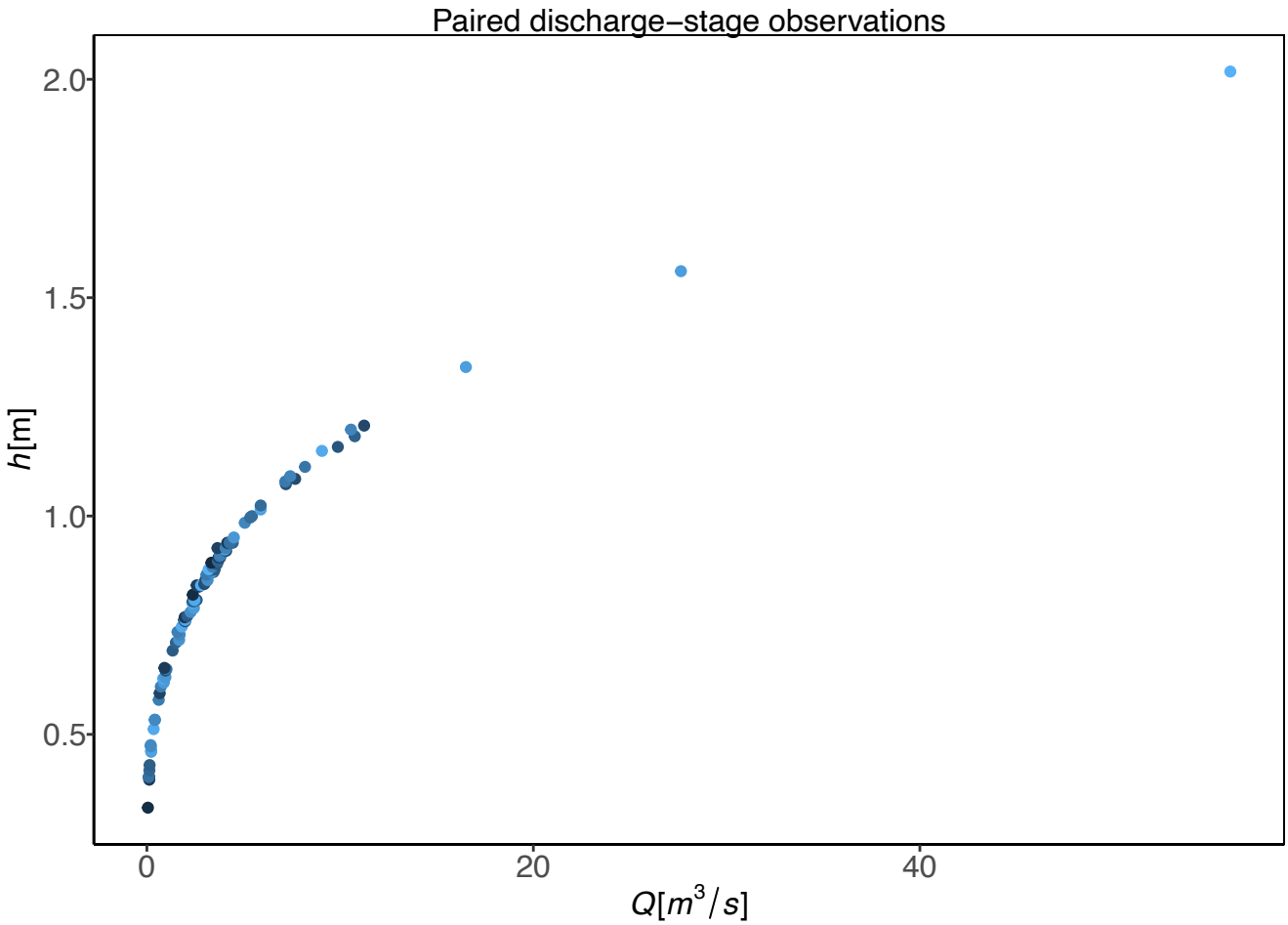
Power–law tournament results for Turlock, Usa



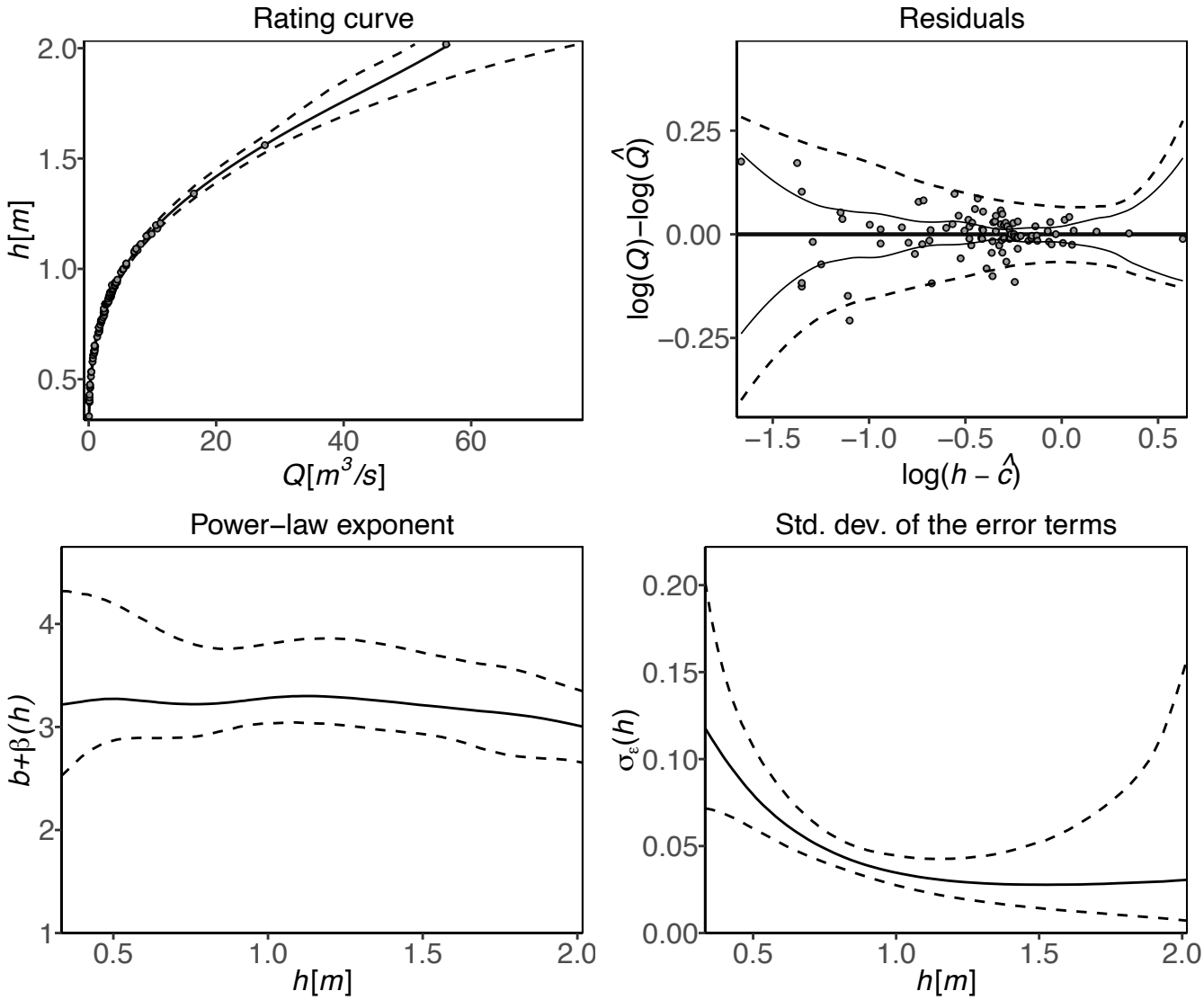
Station name:	Eleanor
Location:	California, USA
Station number:	11278000
Number of observations:	93
Start date:	1939–07–11
End date:	1950–11–22
Max. discharge (m^3/s):	56.1
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	0.98
GPLM0	27.14	0.00
PLM	8.12	0.02
PLM0	77.49	0.00



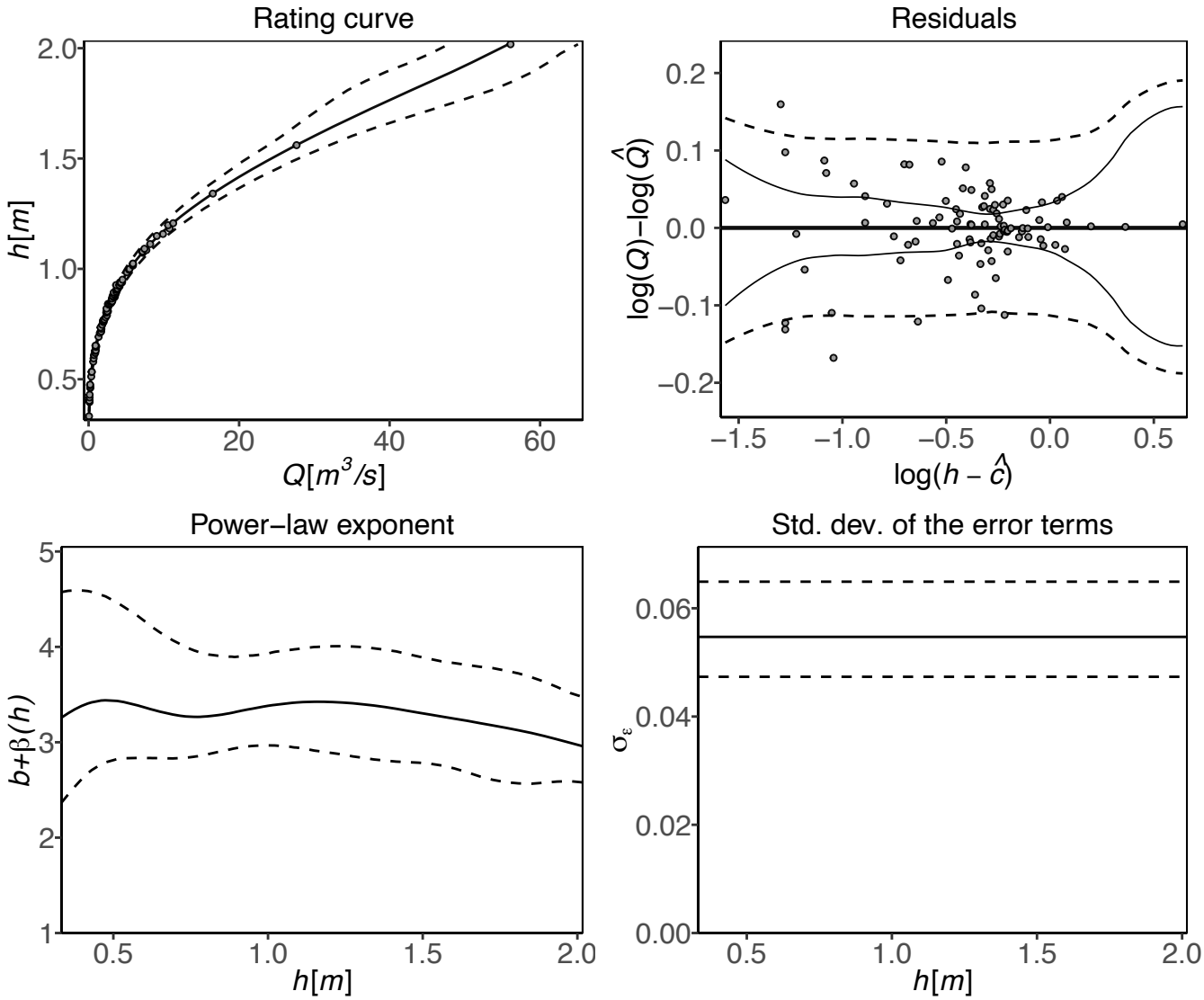


Eleanor, Usa – GPLM



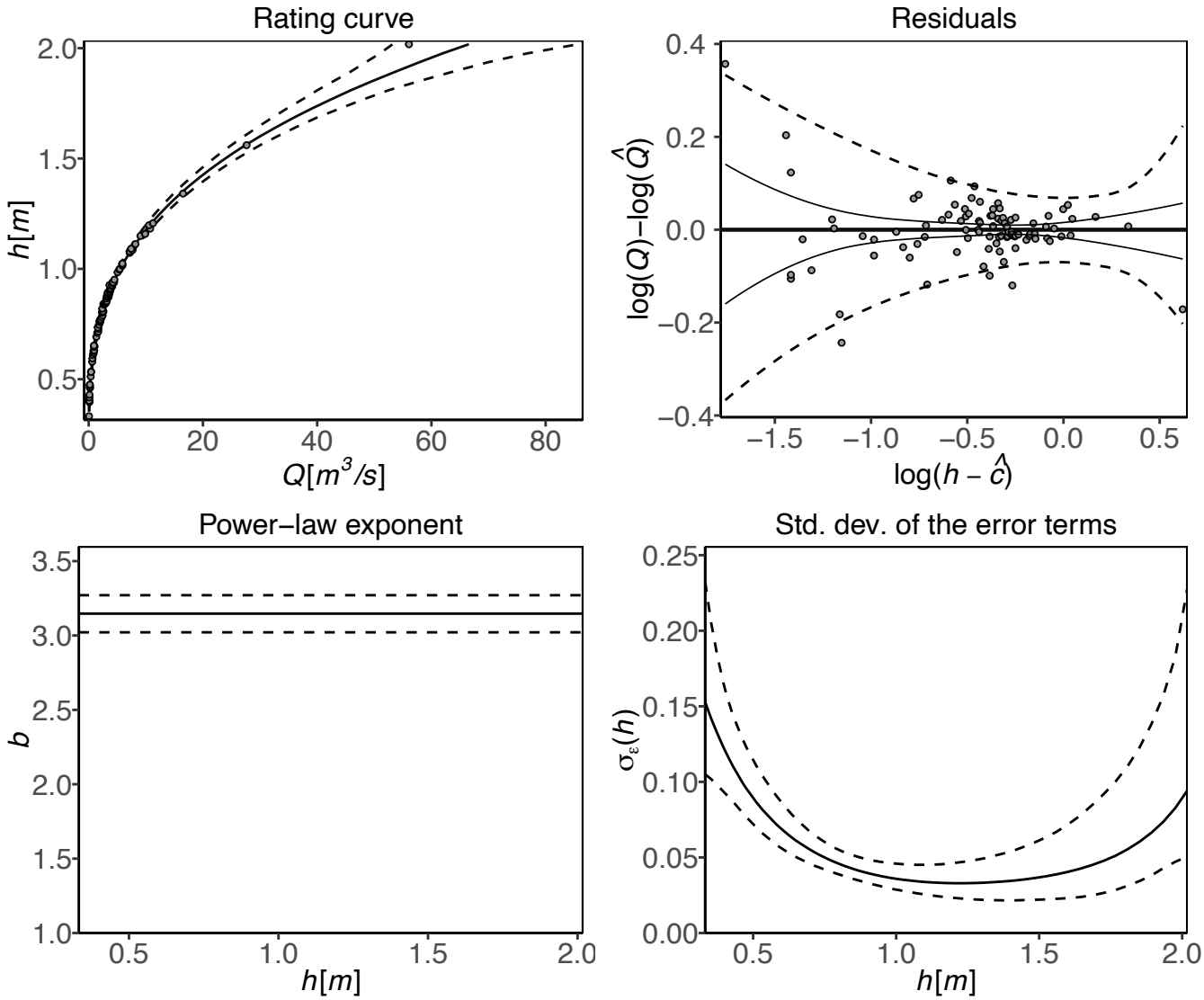
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.07	[5.36; 11.68]	2016	1.02
b	1.84	[1.83; 1.84]	6100	1.00
c	0.14	[0.00; 0.22]	2012	1.02
σ_β	0.79	[0.45; 1.43]	1586	1.02
ϕ_β	0.95	[0.49; 9244.81]	718	2.39
σ_η	0.77	[0.42; 1.32]	1443	1.06
η_1	–4.28	[–5.27; –3.20]	1220	1.08
η_2	–5.44	[–6.95; –4.30]	1612	1.01
η_3	–7.49	[–9.35; –6.07]	1807	1.01
η_4	–8.23	[–10.75; –6.10]	1623	1.04
η_5	–8.08	[–11.31; –4.70]	1388	1.10
η_6	–7.92	[–11.84; –3.68]	1299	1.11

Eleanor, Usa – GPLM0



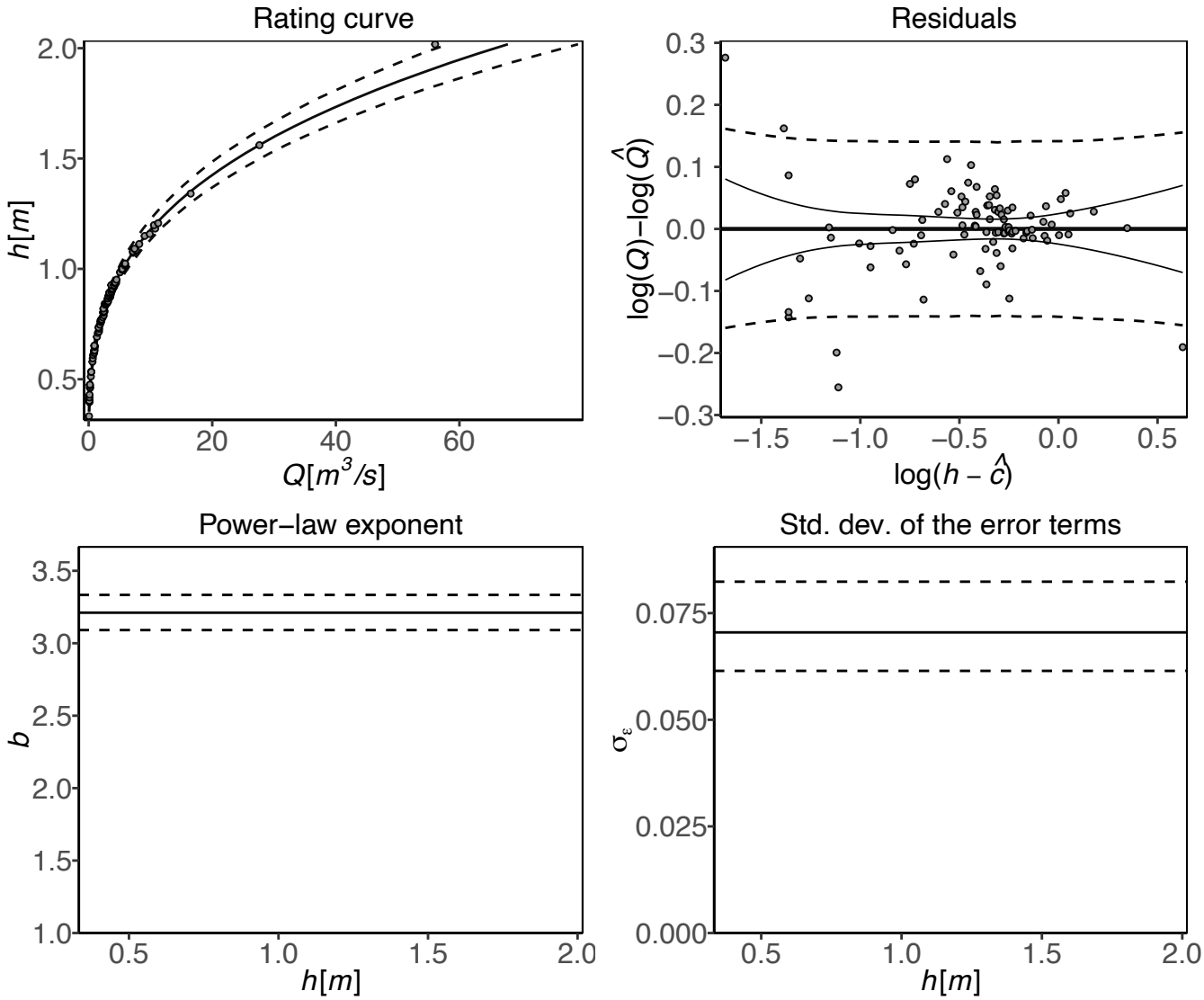
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.47	[4.61; 12.10]	5126	1.00
b	1.84	[1.83; 1.84]	12165	1.00
c	0.12	[–0.04; 0.23]	4645	1.00
σ_ε	0.05	[0.05; 0.06]	3619	1.00
σ_β	0.92	[0.72; 1.21]	5506	1.00
ϕ_β	0.65	[0.41; 1.25]	1494	1.01

Eleanor, Usa – PLM



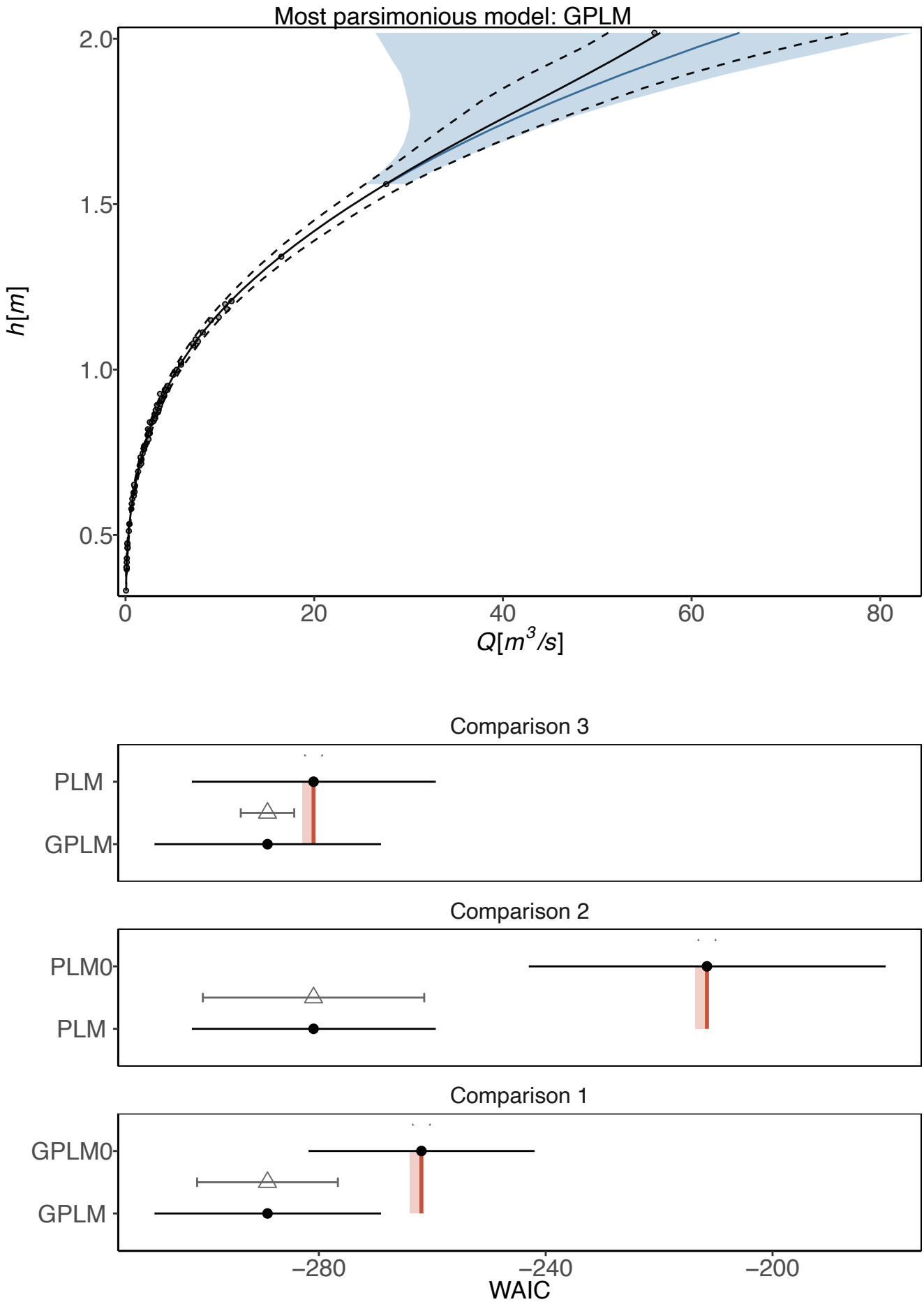
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.50	[8.87; 10.13]	2923	1.00
b	3.15	[3.02; 3.27]	2894	1.00
c	0.16	[0.14; 0.18]	2751	1.00
σ_η	0.92	[0.58; 1.47]	2192	1.00
η_1	–3.76	[–4.51; –2.92]	2668	1.00
η_2	–5.19	[–6.51; –4.13]	2250	1.00
η_3	–7.11	[–8.78; –5.75]	2405	1.00
η_4	–7.22	[–9.12; –5.54]	2651	1.00
η_5	–6.09	[–8.24; –4.08]	2779	1.00
η_6	–4.78	[–6.76; –3.03]	2506	1.00

Eleanor, Usa – PLM0



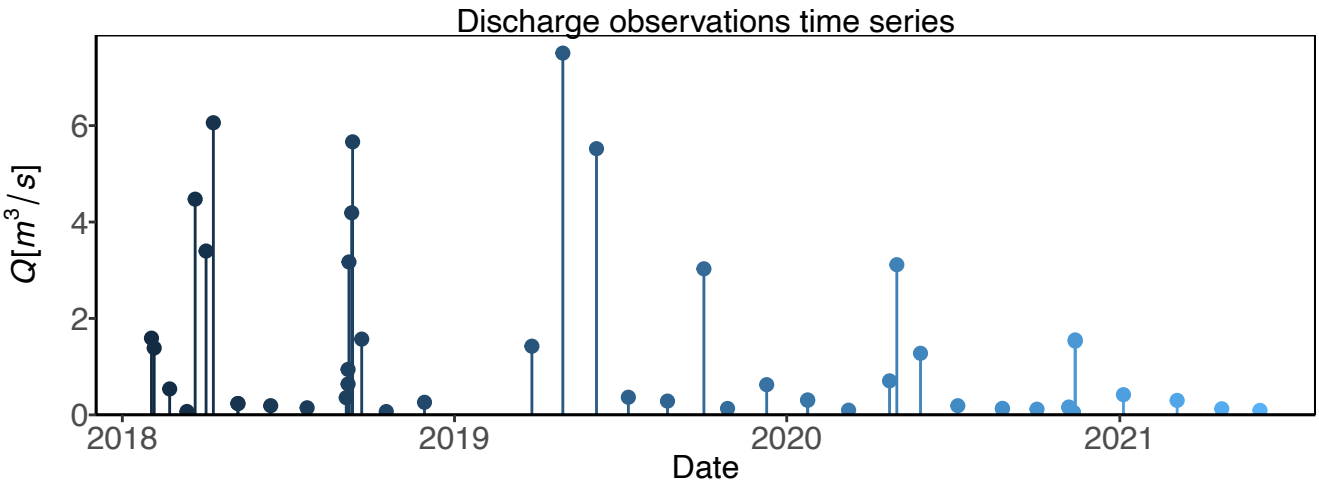
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.07	[8.58; 9.52]	11168	1.00
b	3.21	[3.09; 3.33]	10810	1.00
c	0.15	[0.13; 0.16]	10422	1.00
σ_ε	0.07	[0.06; 0.08]	9221	1.00

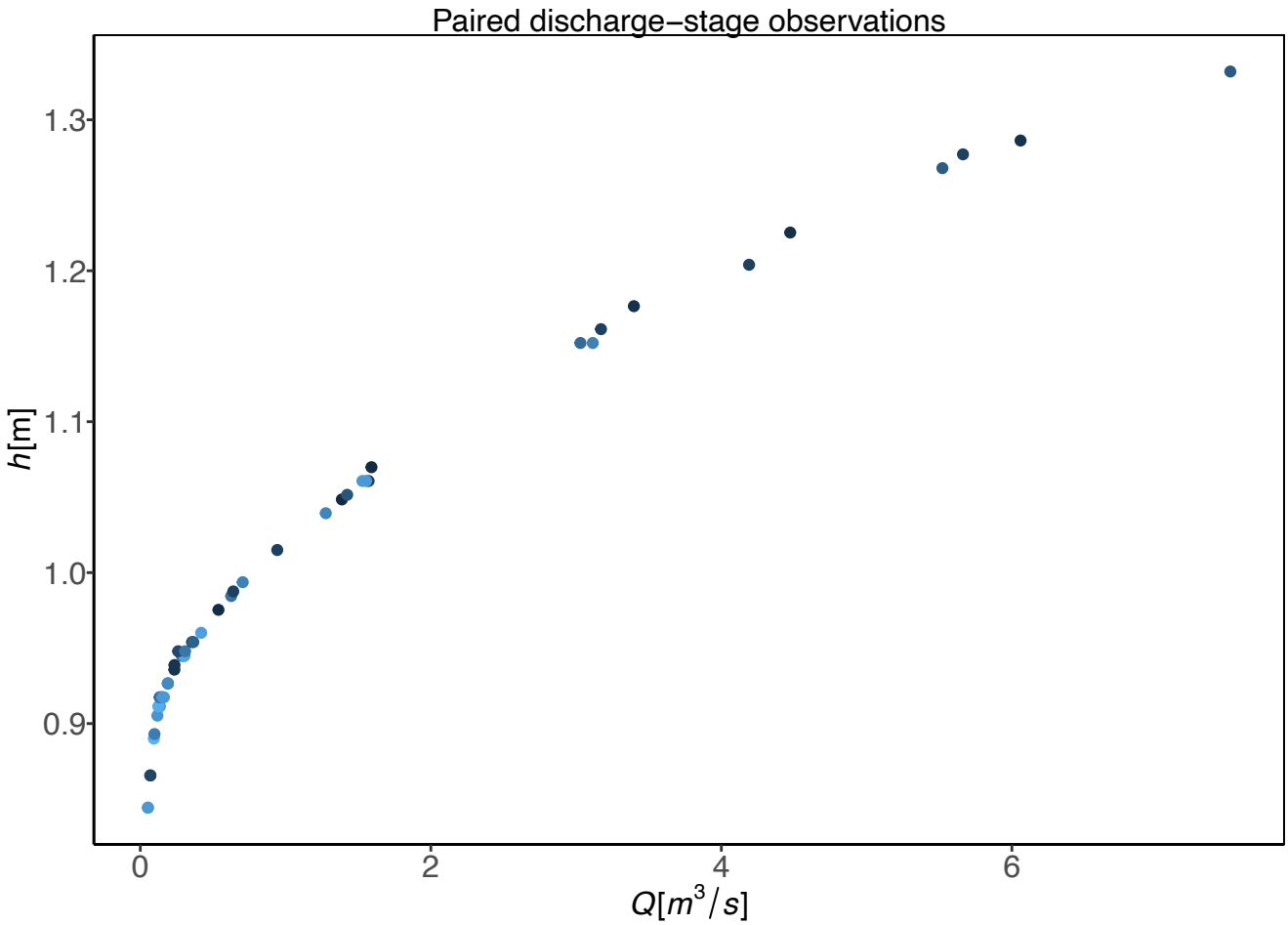
Power−law tournament results for Eleanor, Usa



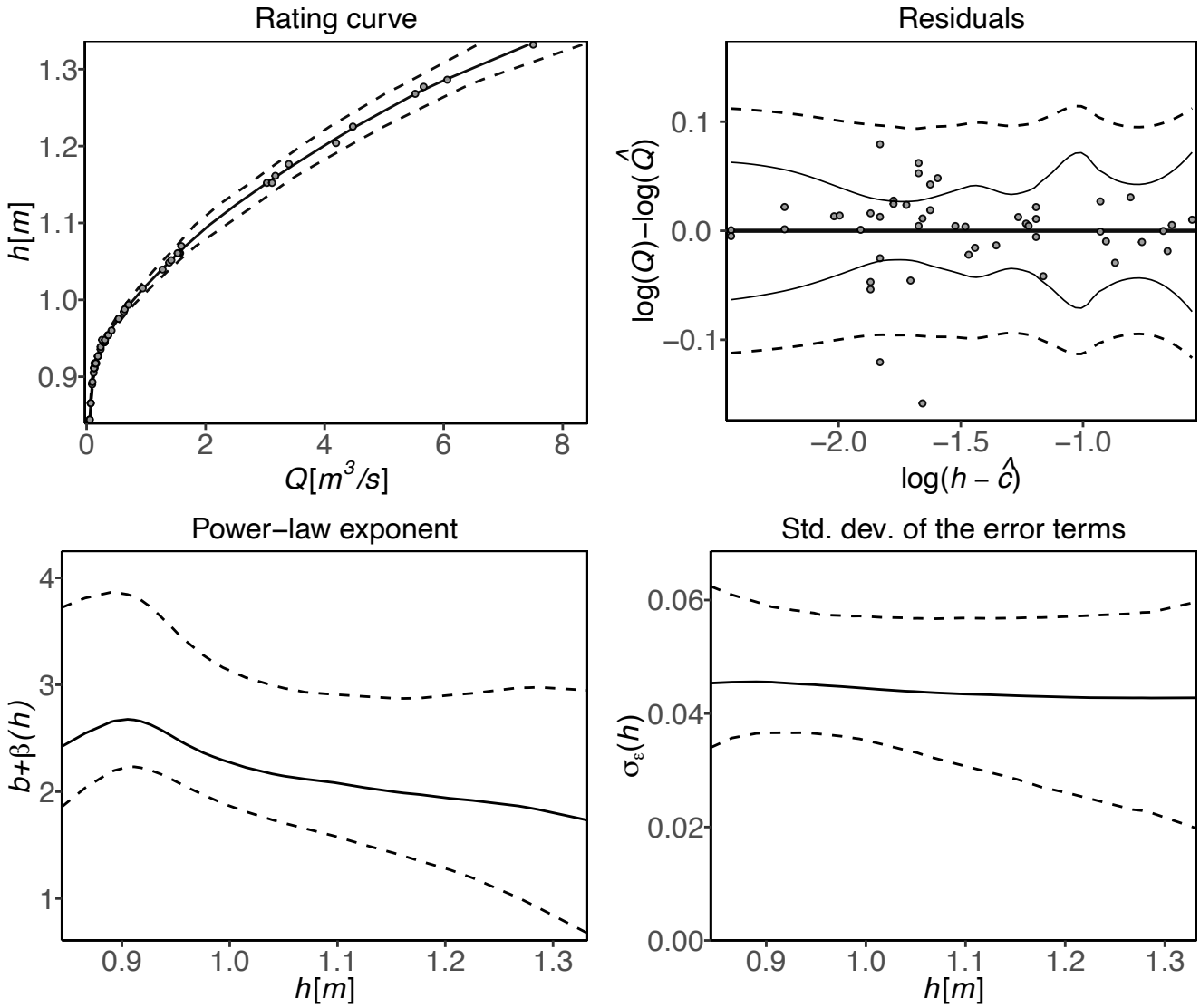
Station name:	Donner
Location:	California, USA
Station number:	10338500
Number of observations:	48
Start date:	2018–02–02
End date:	2021–06–04
Max. discharge (m^3/s):	7.5
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.64
GPLM0	1.15	0.36
PLM	134.12	0.00
PLM0	135.67	0.00



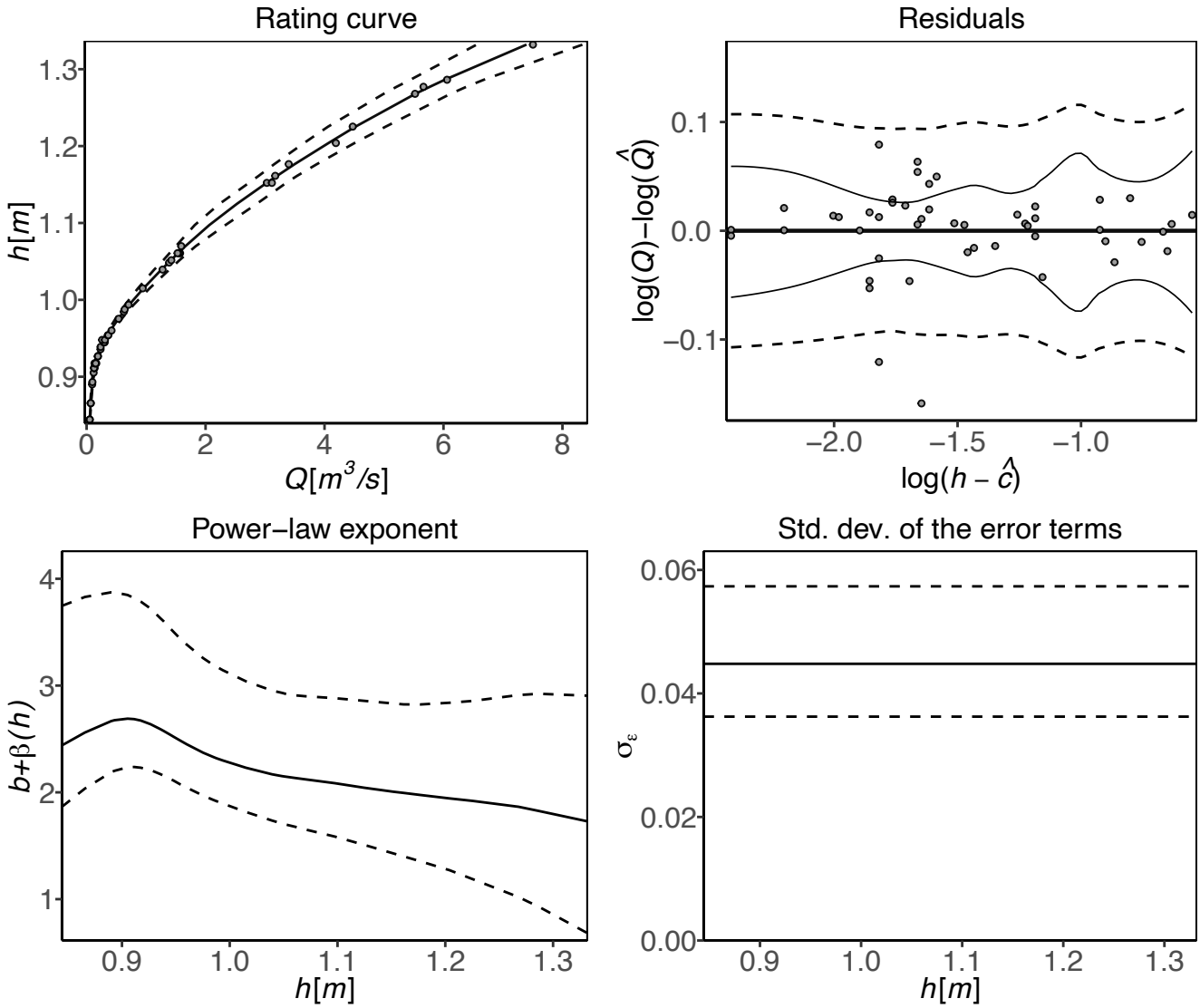


Donner, Usa – GPLM



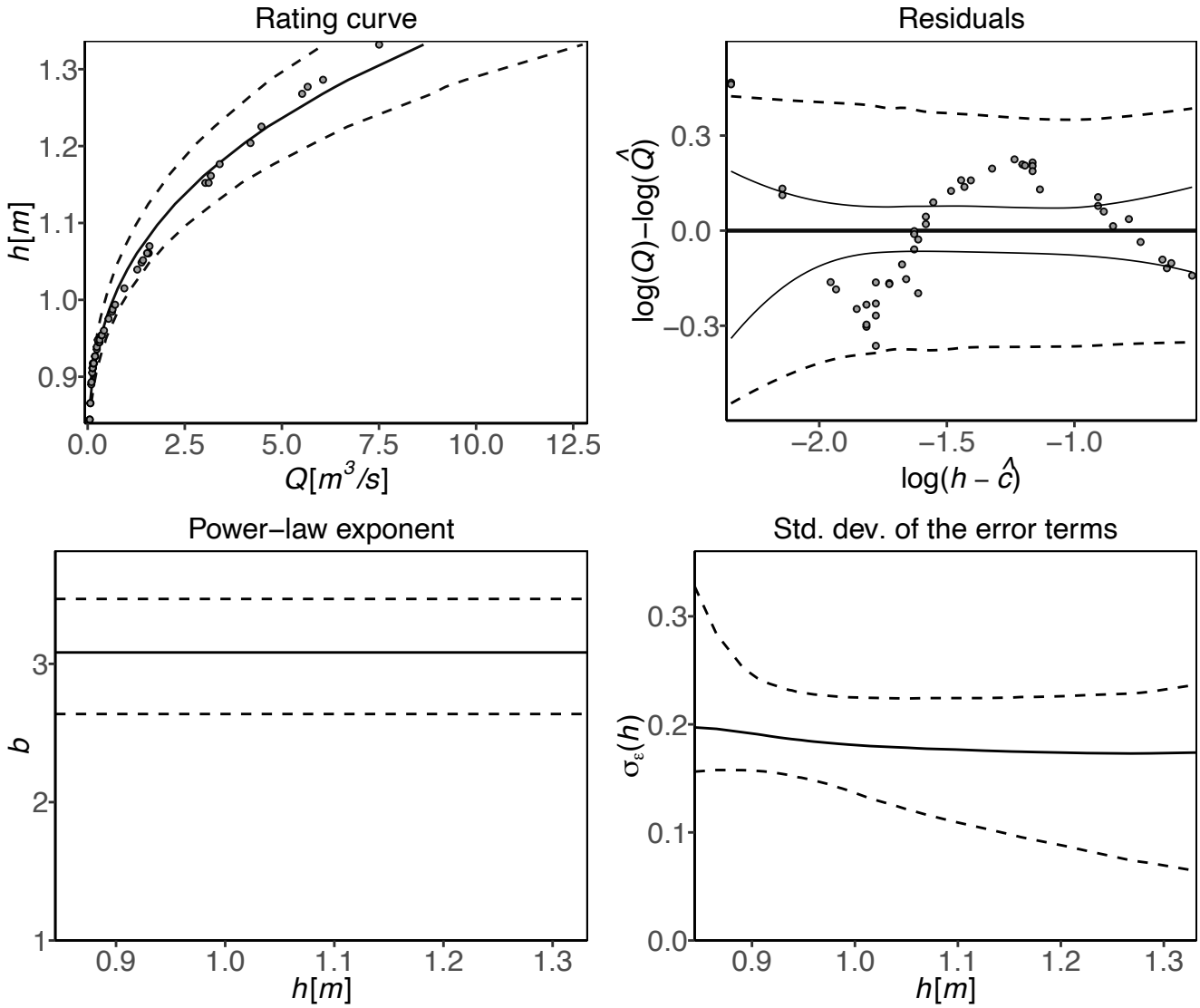
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	19.12	[10.03; 35.75]	5619	1.00
b	1.84	[1.83; 1.84]	7987	1.00
c	0.76	[0.62; 0.80]	2074	1.00
σ_β	0.49	[0.23; 1.16]	2356	1.00
ϕ_β	0.16	[0.10; 0.25]	2288	1.00
σ_η	0.10	[0.00; 0.60]	1588	1.00
η_1	–6.19	[–6.76; –5.55]	1670	1.00
η_2	–6.09	[–7.93; –4.33]	1909	1.00
η_3	–6.45	[–9.03; –3.83]	2426	1.00
η_4	–6.83	[–9.89; –3.35]	2342	1.00
η_5	–7.02	[–10.61; –3.00]	2213	1.00
η_6	–7.07	[–11.14; –2.60]	2205	1.01

Donner, Usa – GPLM0



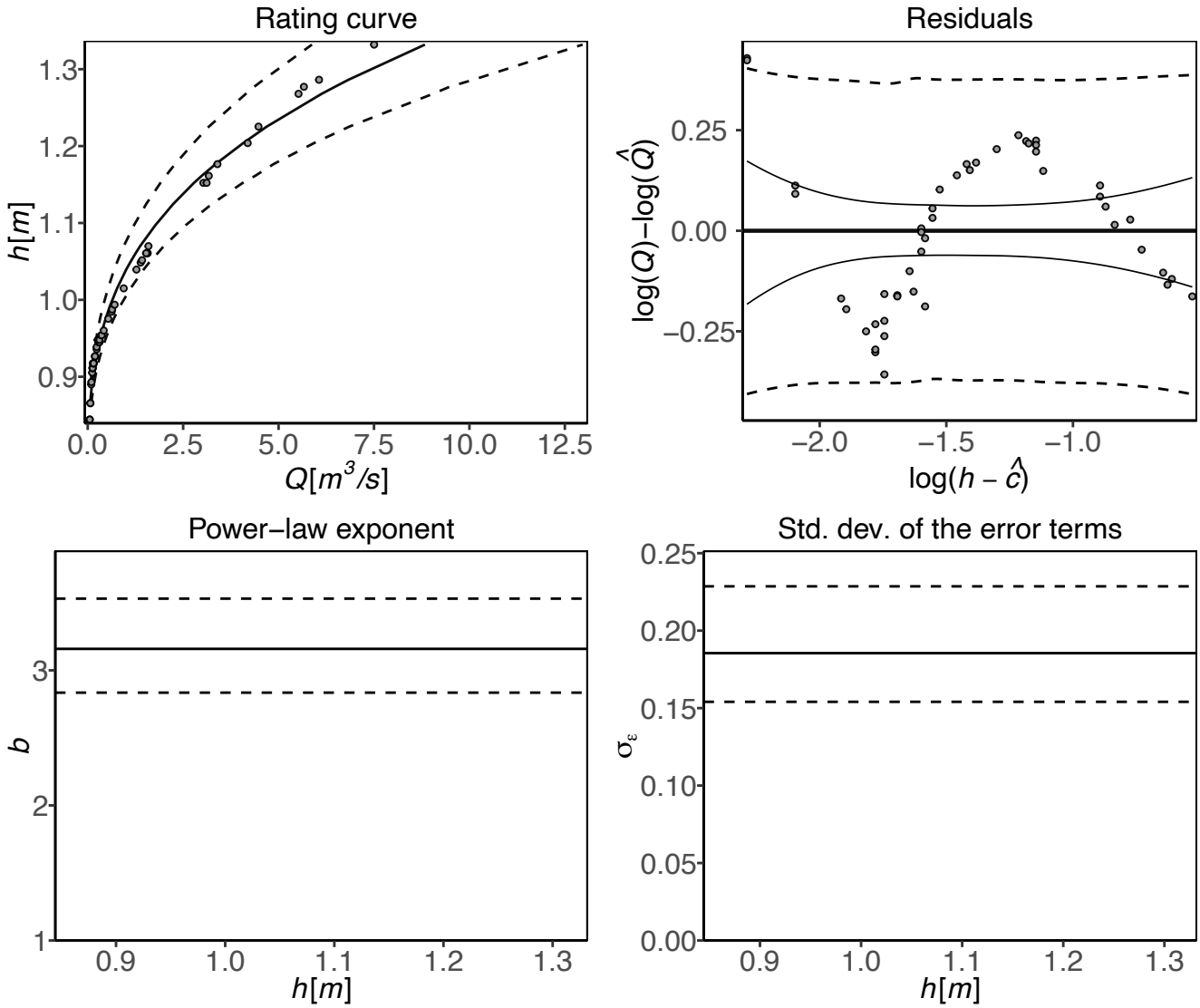
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.94	[9.97; 35.57]	9032	1.00
b	1.84	[1.83; 1.84]	10839	1.00
c	0.76	[0.62; 0.80]	4772	1.00
σ_ε	0.04	[0.04; 0.06]	5199	1.00
σ_β	0.70	[0.48; 1.06]	5334	1.00
ϕ_β	0.16	[0.10; 0.24]	5576	1.00

Donner, Usa – PLM



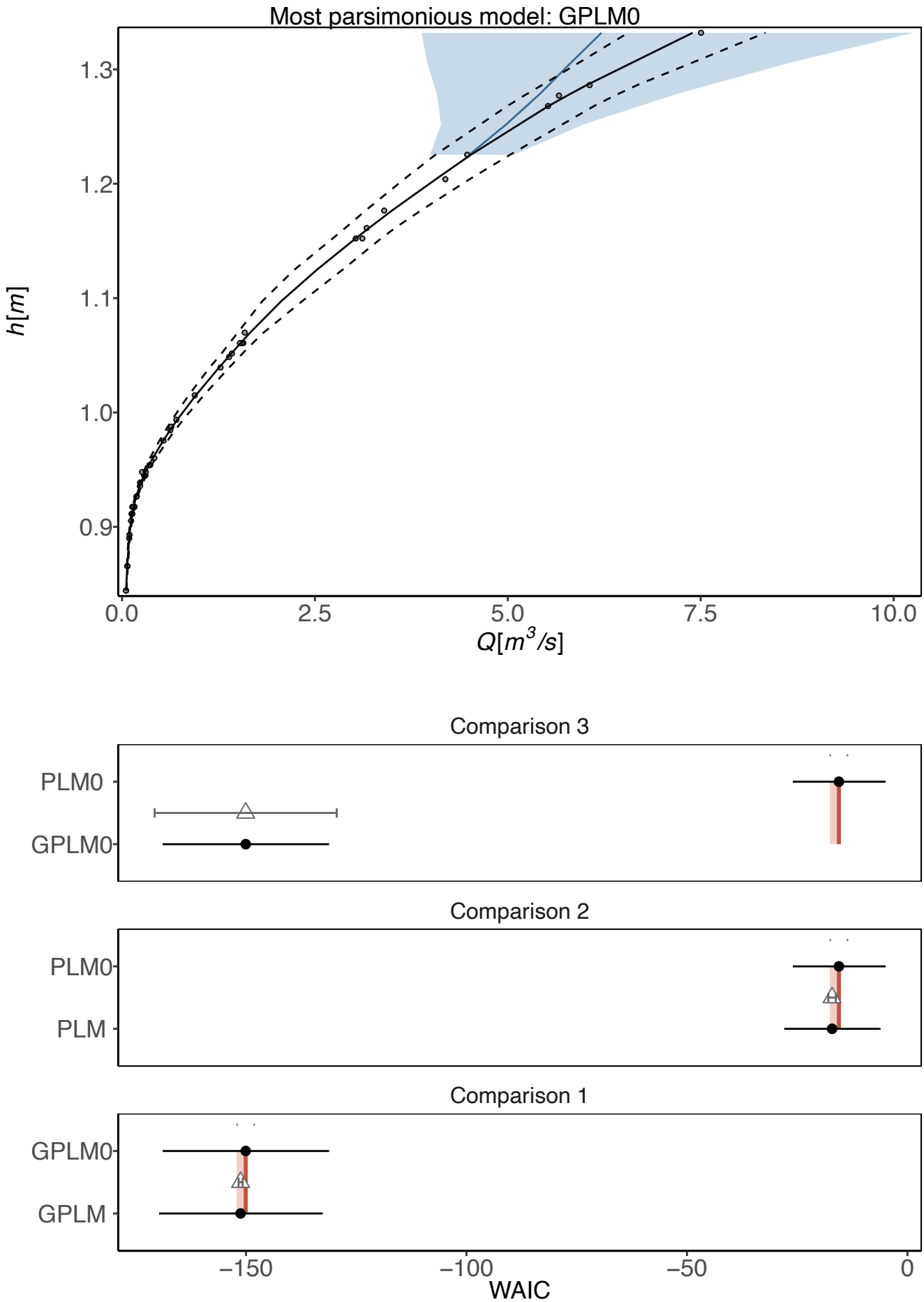
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	45.68	[36.68; 56.11]	3804	1.00
b	3.08	[2.64; 3.47]	2500	1.00
c	0.75	[0.72; 0.78]	2204	1.00
σ_η	0.13	[0.00; 0.73]	1122	1.01
η_1	–3.25	[–3.71; –2.23]	2275	1.00
η_2	–3.55	[–5.36; –1.75]	1745	1.00
η_3	–4.05	[–6.51; –1.31]	1916	1.00
η_4	–4.43	[–7.53; –0.89]	2038	1.00
η_5	–4.70	[–8.34; –0.55]	2029	1.00
η_6	–4.67	[–8.82; 0.01]	2042	1.00

Donner, Usa – PLM0



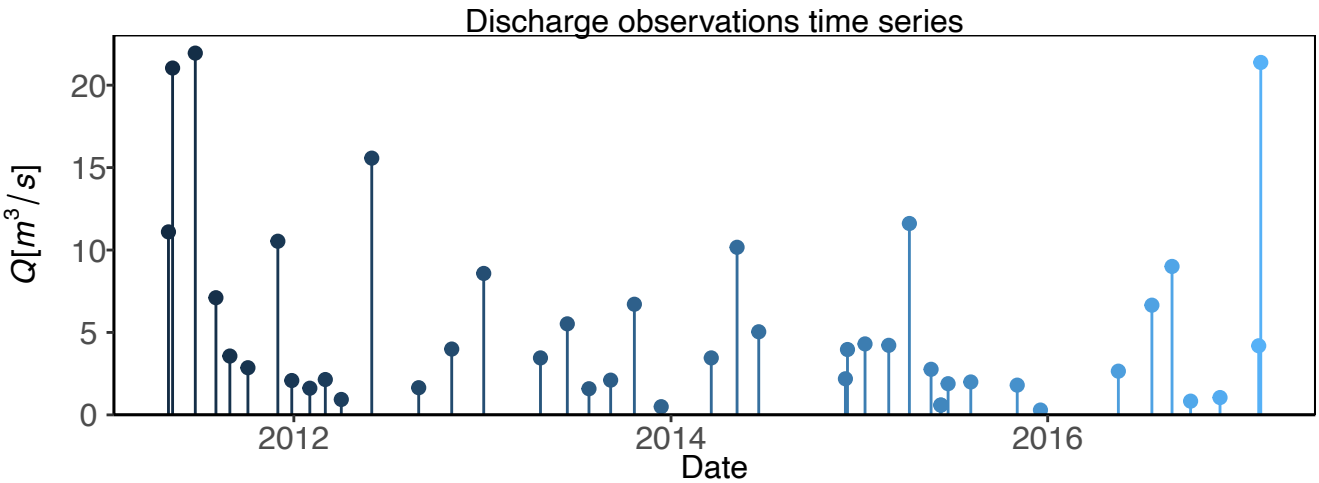
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	46.77	[37.74; 56.91]	13539	1.00
b	3.16	[2.83; 3.53]	10521	1.00
c	0.74	[0.71; 0.76]	10311	1.00
σ_ε	0.19	[0.15; 0.23]	9674	1.00

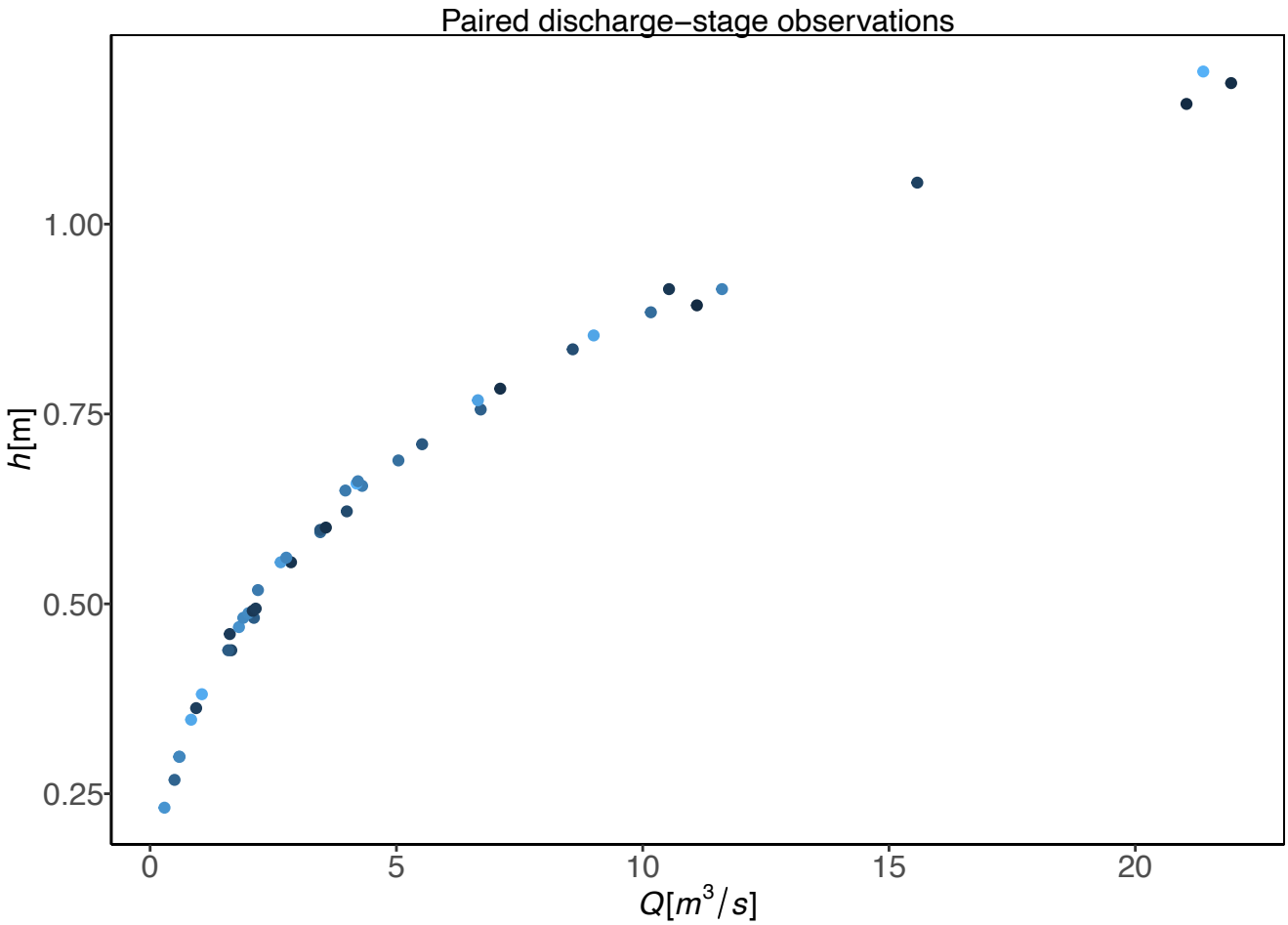
Power−law tournament results for Donner, Usa



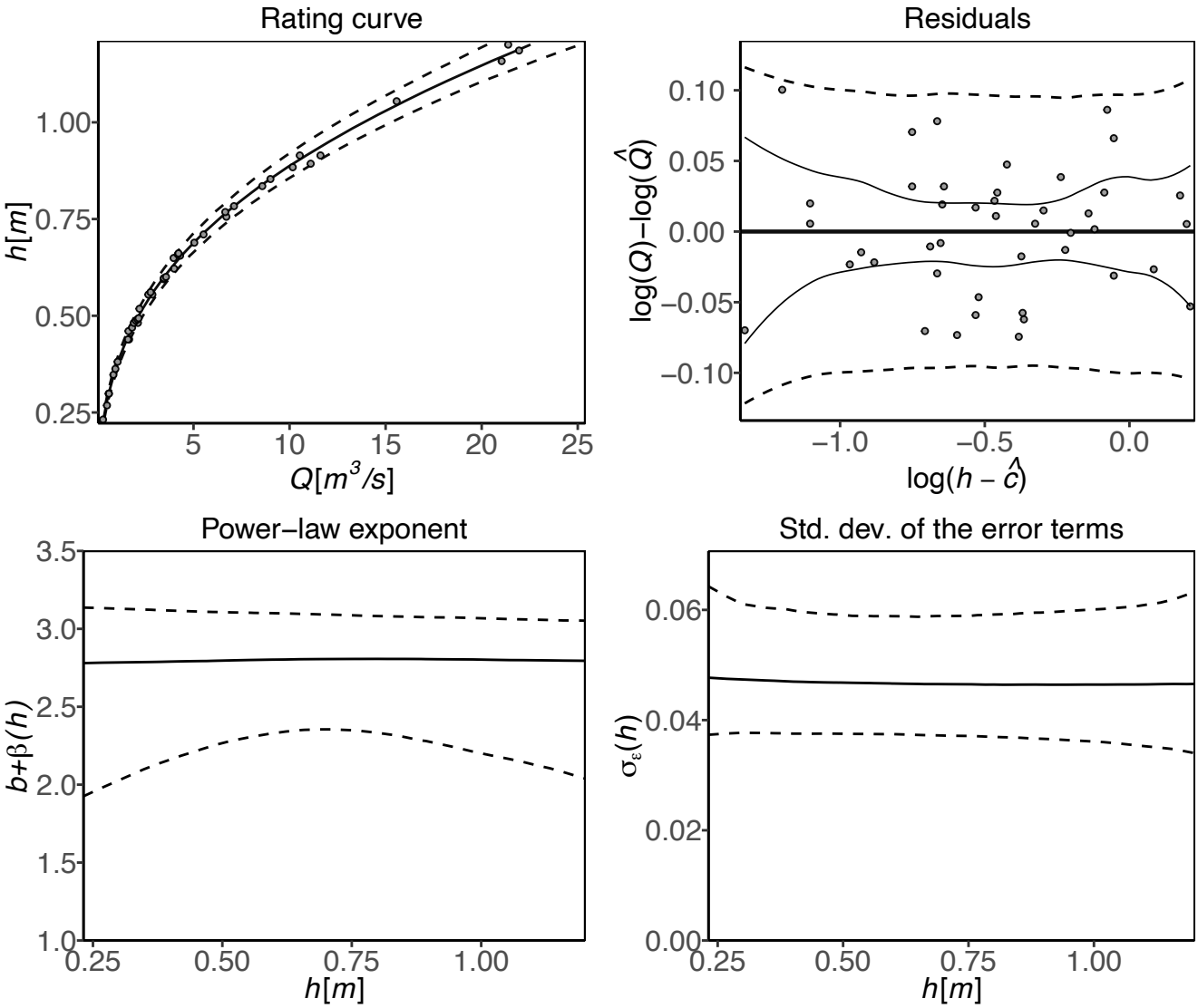
Station name:	Little Truckee
Location:	California, USA
Station number:	10344500
Number of observations:	43
Start date:	2011–05–03
End date:	2017–02–17
Max. discharge (m^3/s):	21.9
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.00	0.28
GPLM0	0.15	0.26
PLM	0.43	0.23
PLM0	0.38	0.23



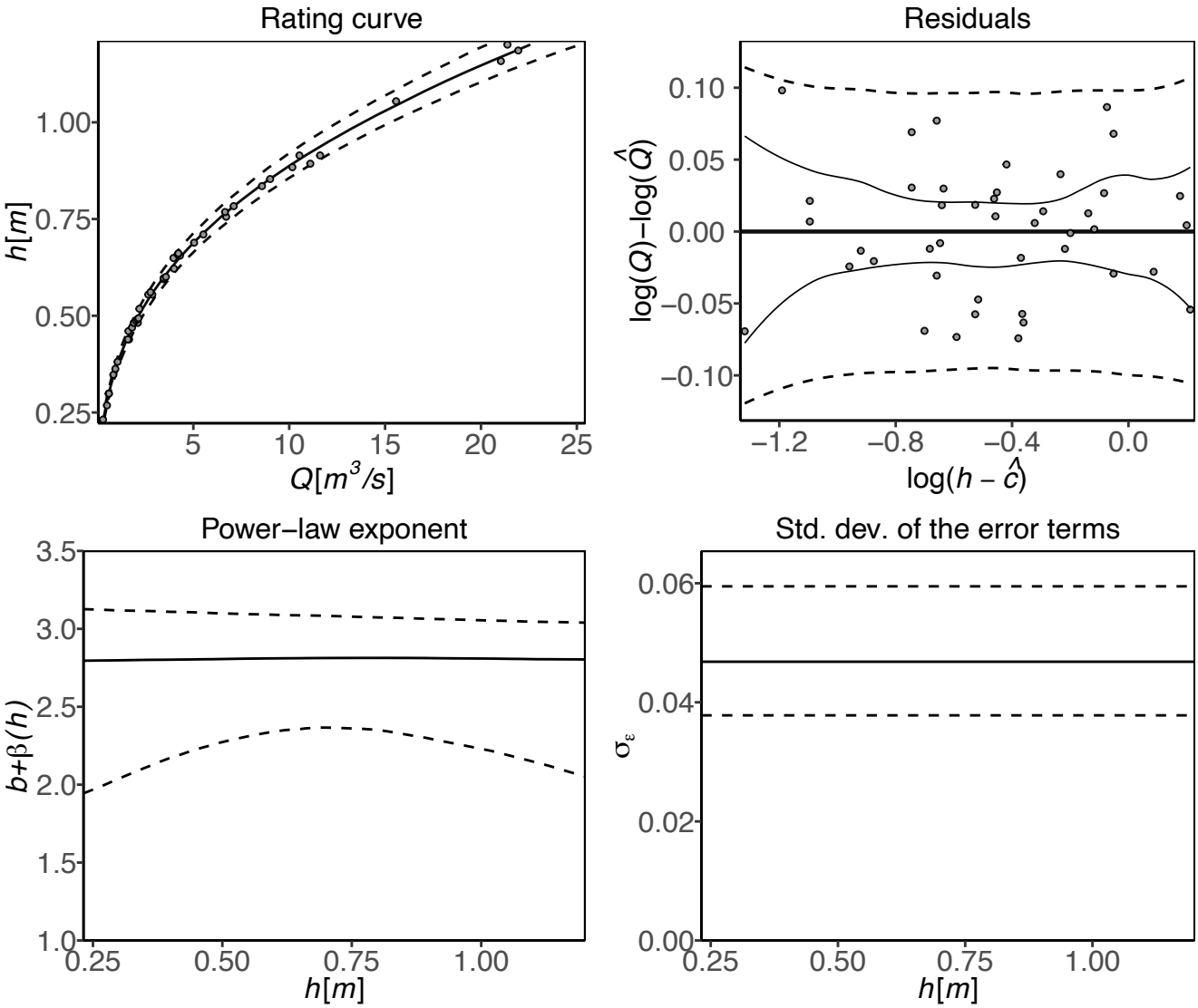


Little Truckee, Usa – GPLM



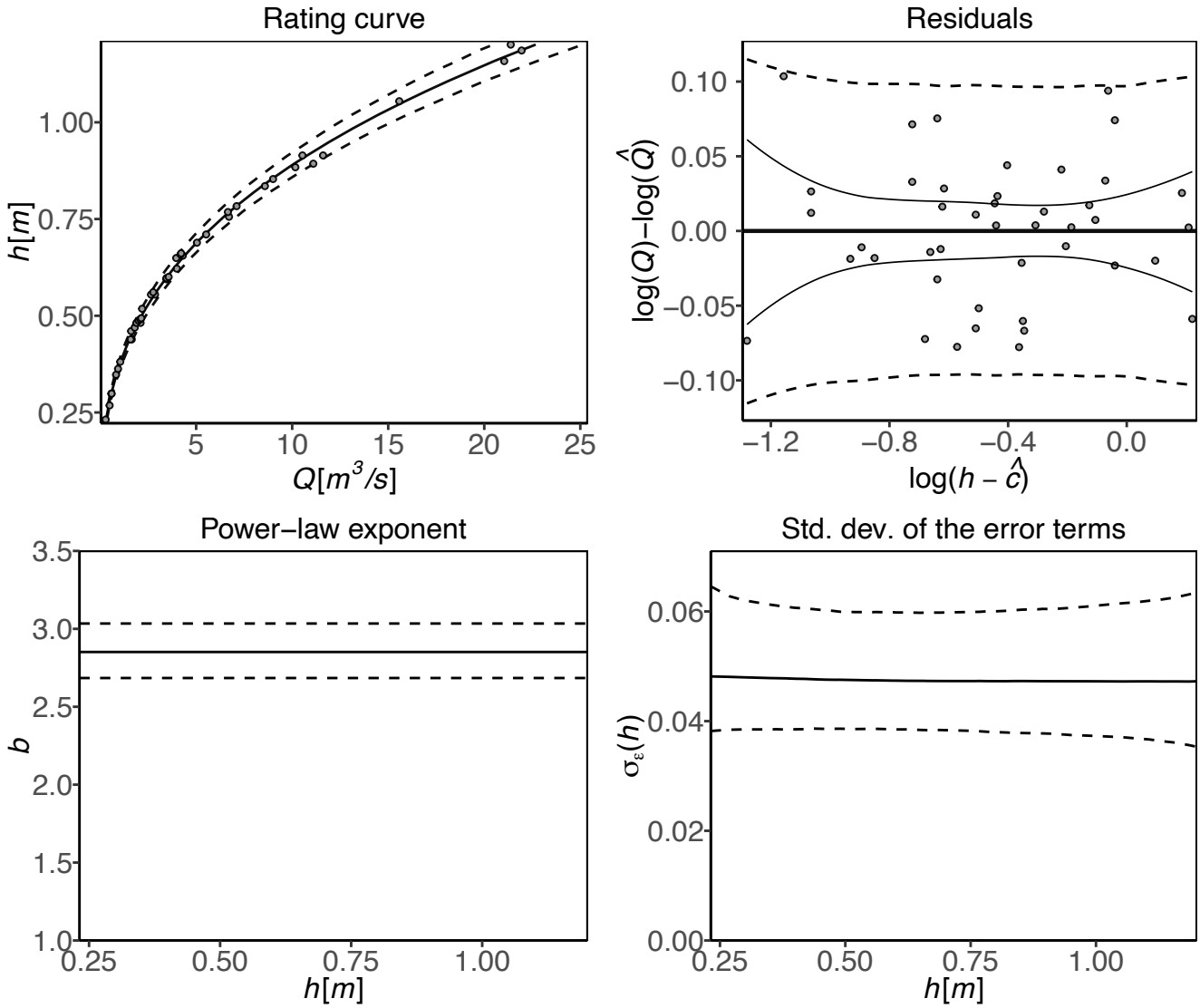
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.54	[10.41; 18.57]	1154	1.01
b	1.84	[1.83; 1.84]	6585	1.00
c	–0.03	[–0.10; 0.11]	1133	1.01
σ_β	0.55	[0.27; 1.11]	1752	1.01
ϕ_β	5.06	[0.53; 5166.20]	734	1.10
σ_η	0.08	[0.00; 0.39]	1333	1.01
η_1	–6.09	[–6.58; –5.49]	1702	1.00
η_2	–6.24	[–8.17; –4.41]	1877	1.00
η_3	–6.38	[–8.92; –3.87]	1868	1.00
η_4	–6.45	[–9.50; –3.17]	1775	1.01
η_5	–6.41	[–10.03; –2.71]	1848	1.00
η_6	–6.41	[–10.52; –2.26]	1781	1.00

Little Truckee, Usa – GPLM0



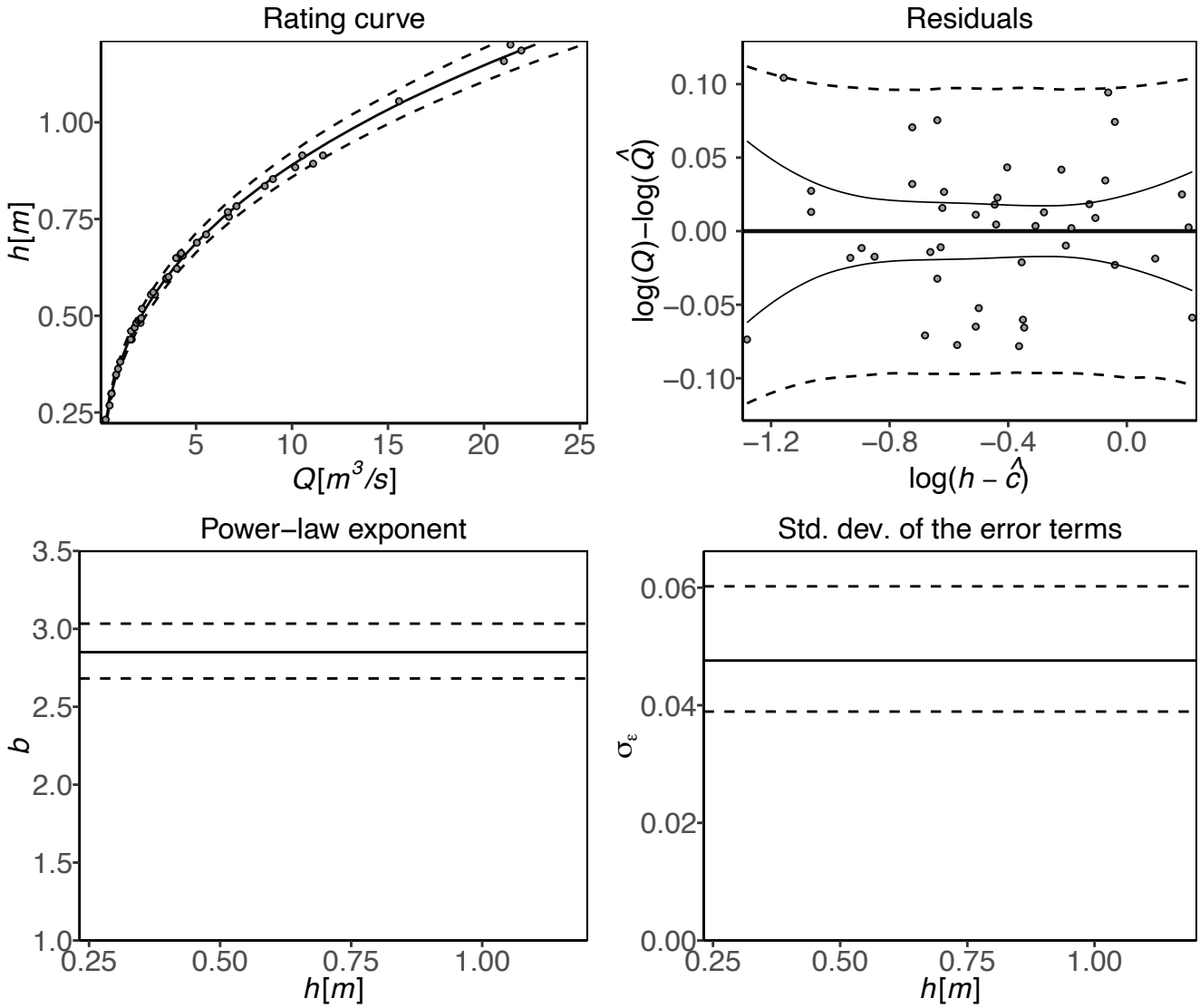
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.45	[10.44; 18.45]	1518	1.02
b	1.84	[1.83; 1.84]	7023	1.00
c	–0.04	[–0.10; 0.11]	1567	1.02
σ_ε	0.05	[0.04; 0.06]	3225	1.00
σ_β	0.74	[0.52; 1.05]	3015	1.00
ϕ_β	7.17	[0.55; 3115.29]	757	1.06

Little Truckee, Usa – PLM



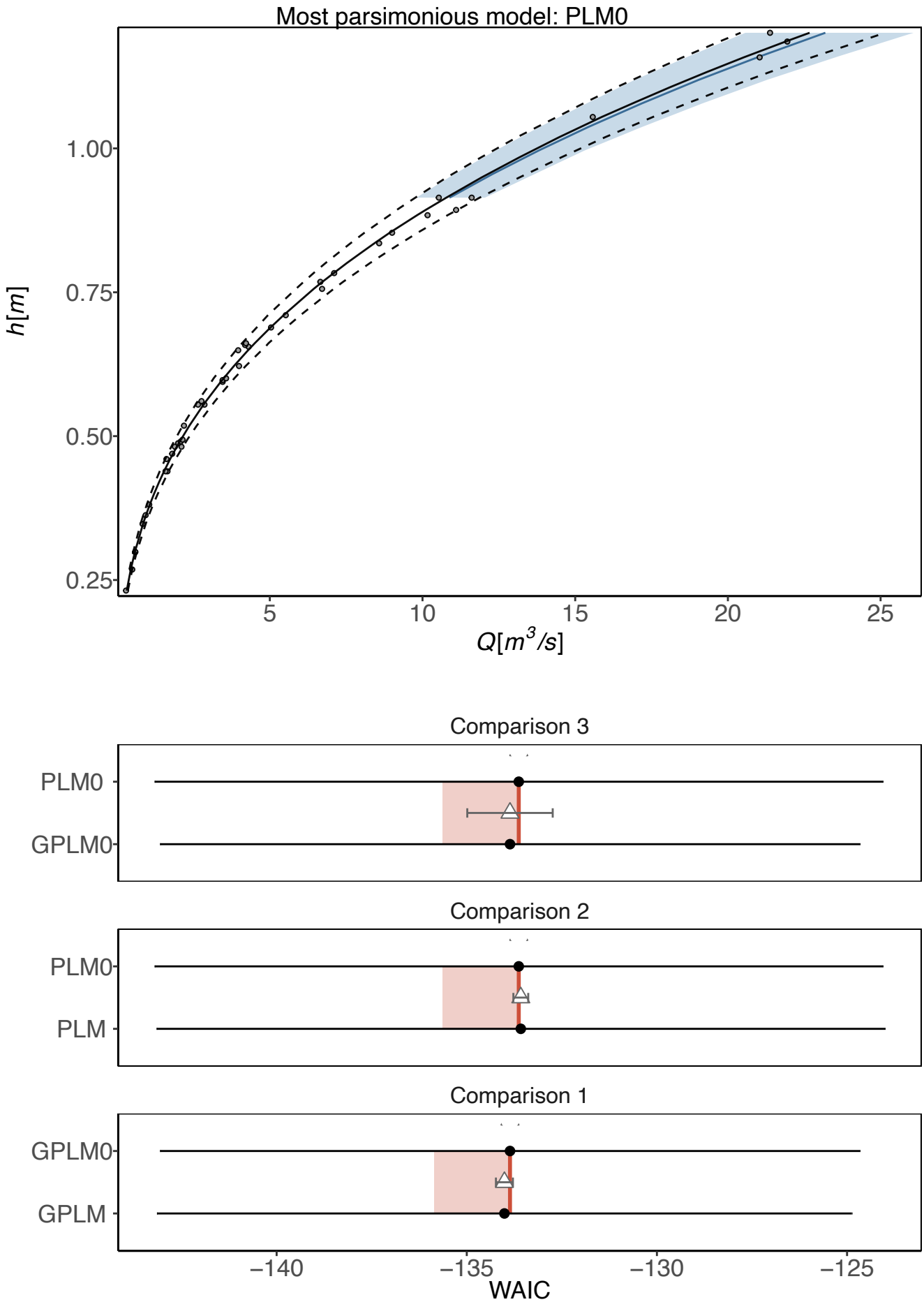
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.07	[10.85; 13.13]	2813	1.00
b	2.85	[2.68; 3.03]	2821	1.00
c	–0.05	[–0.08; –0.01]	2697	1.00
σ_η	0.08	[0.00; 0.37]	1841	1.00
η_1	–6.07	[–6.53; –5.48]	2448	1.00
η_2	–6.17	[–8.04; –4.30]	2606	1.00
η_3	–6.30	[–8.78; –3.60]	2734	1.00
η_4	–6.35	[–9.49; –3.14]	2679	1.00
η_5	–6.34	[–9.89; –2.60]	2754	1.00
η_6	–6.40	[–10.37; –2.11]	2672	1.00

Little Truckee, Usa – PLM0



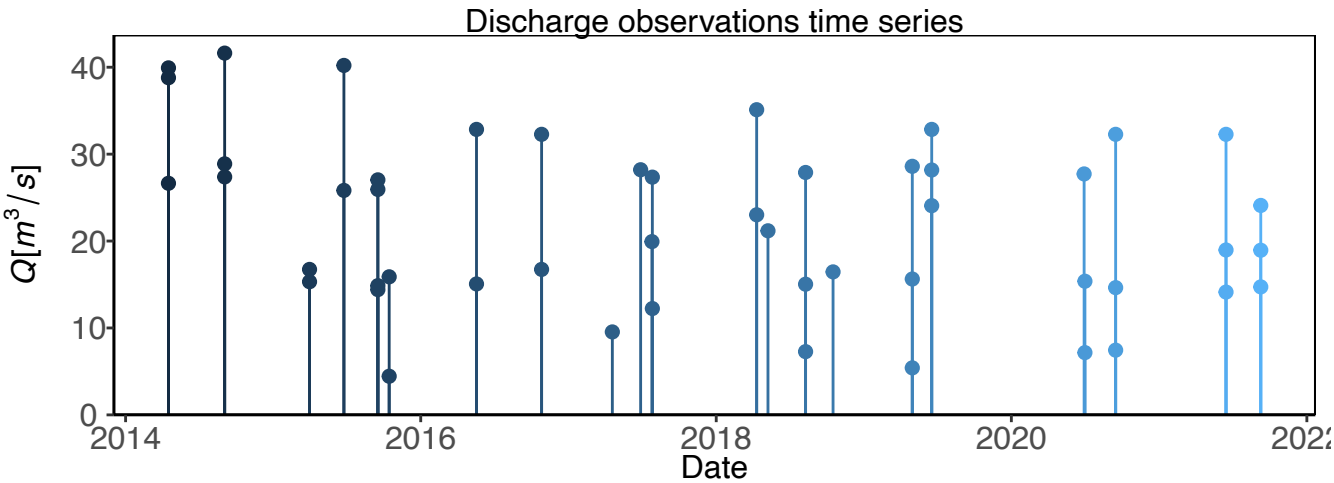
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.08	[10.89; 13.15]	9194	1.00
b	2.85	[2.68; 3.03]	9412	1.00
c	–0.05	[–0.08; –0.01]	9175	1.00
σ_ε	0.05	[0.04; 0.06]	9570	1.00

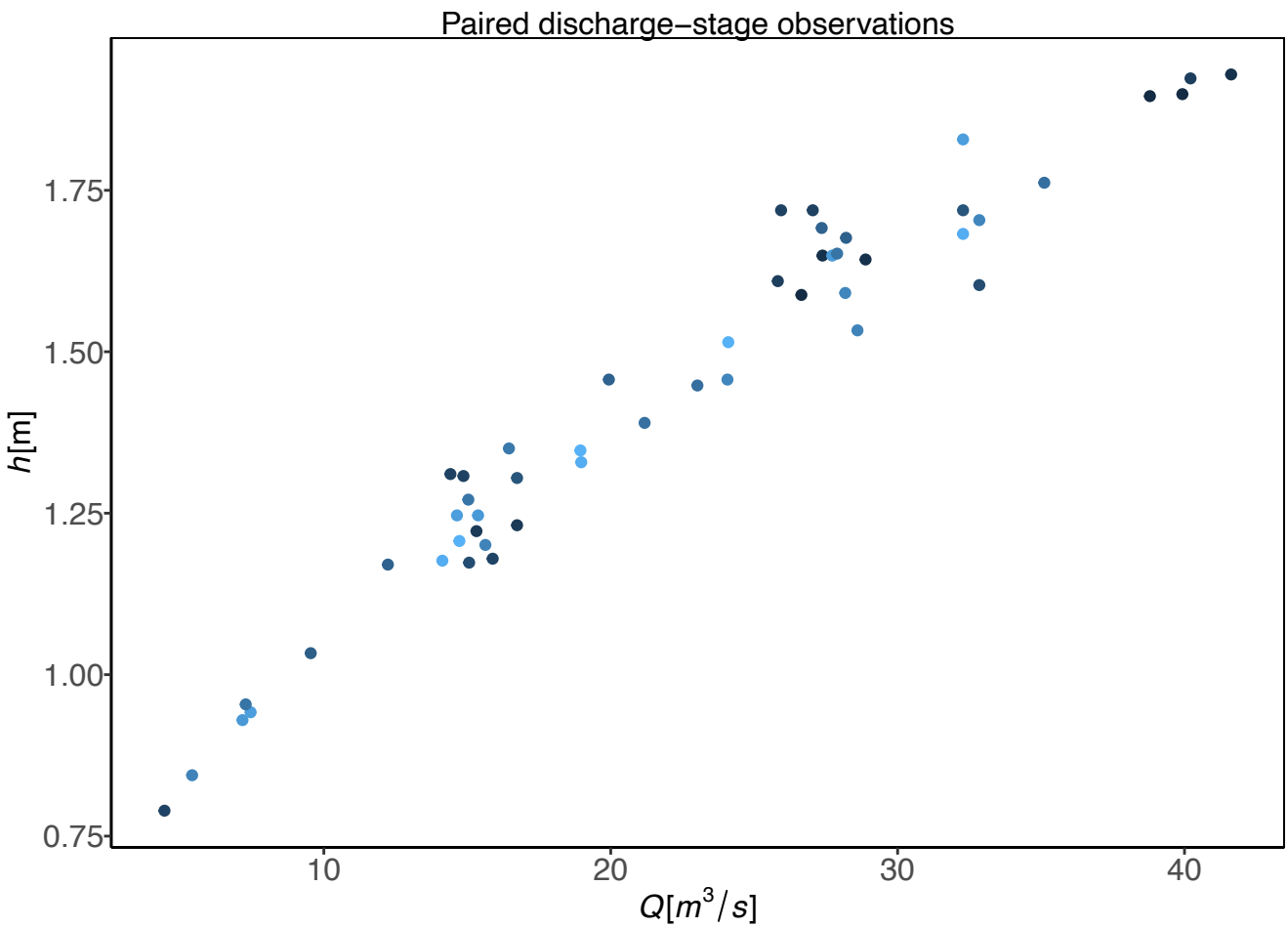
Power−law tournament results for Little Truckee, Usa



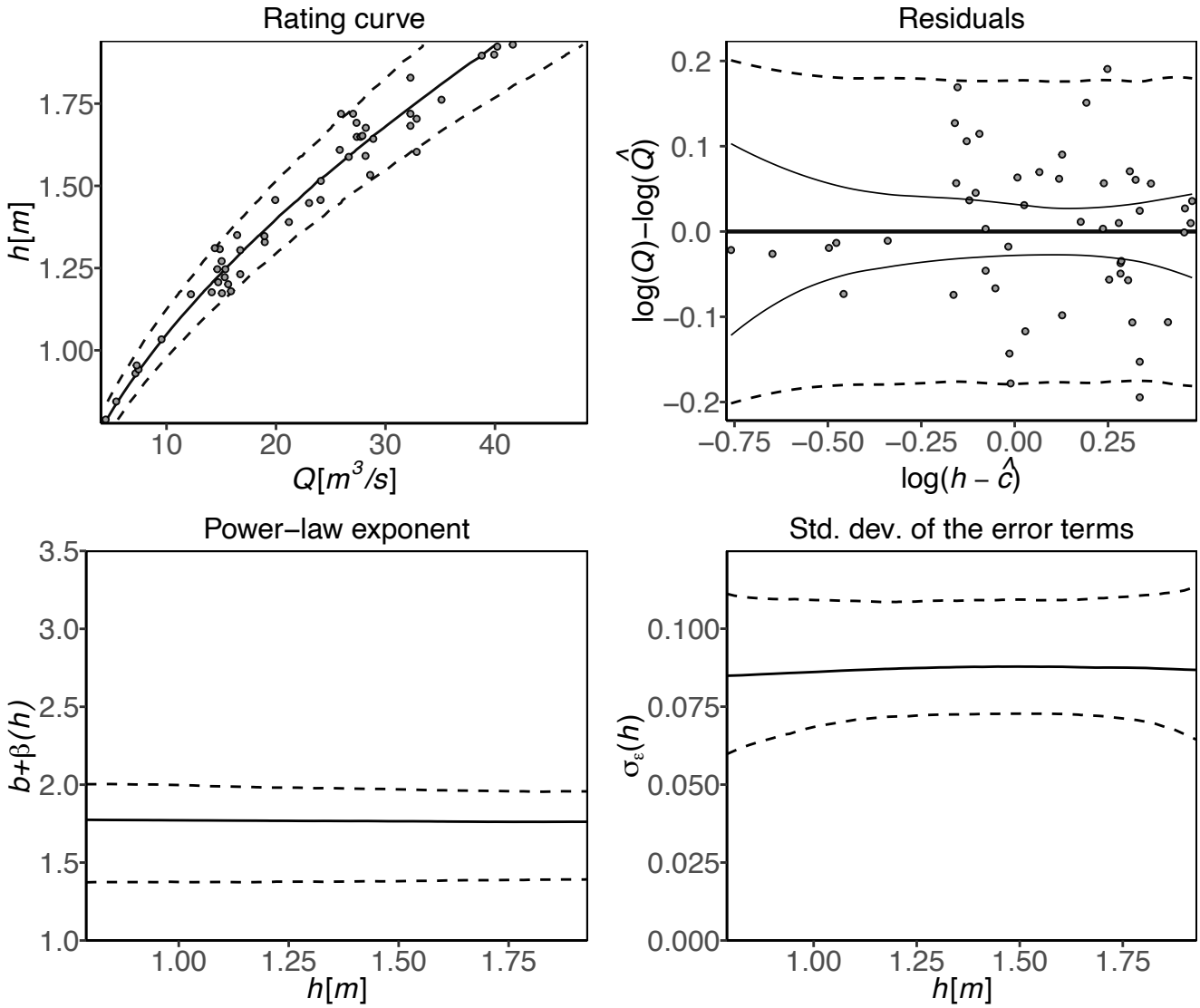
Station name:	Modesto
Location:	California, USA
Station number:	11289000
Number of observations:	50
Start date:	2014–04–17
End date:	2021–09–09
Max. discharge (m^3/s):	41.6
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.48	0.23
GPLM0	0.78	0.20
PLM	0.00	0.29
PLM0	0.08	0.28



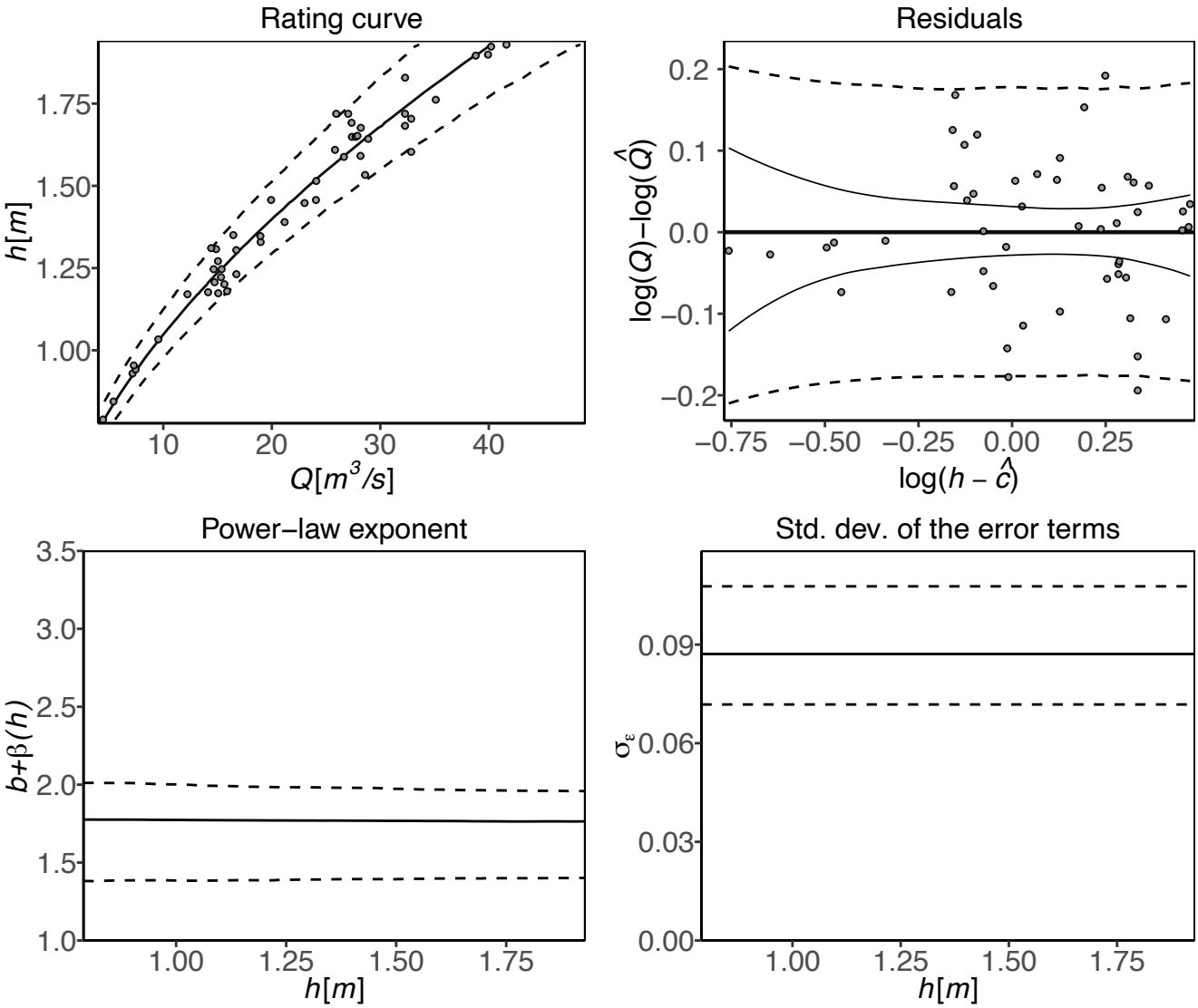


Modesto, Usa – GPLM



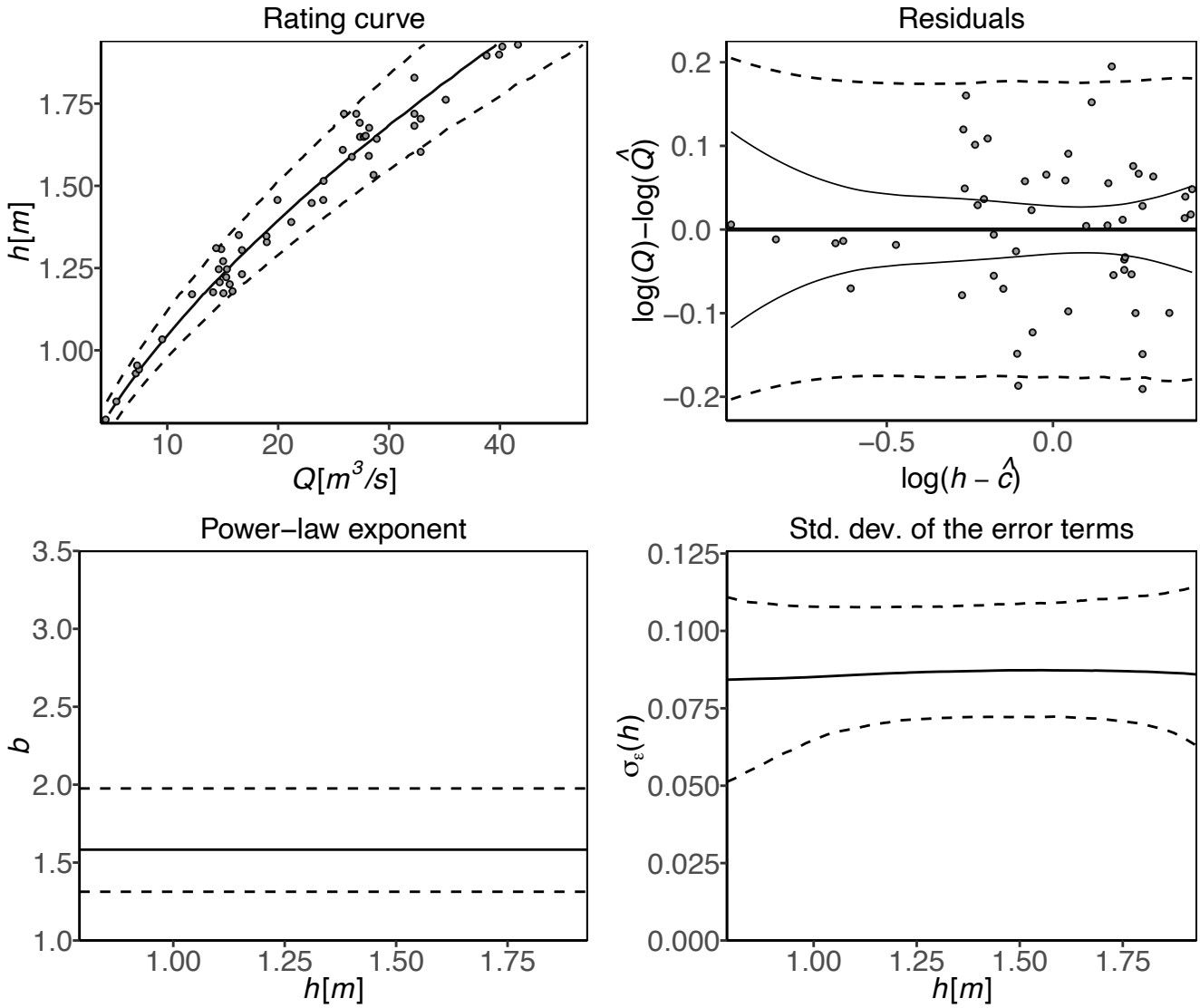
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	17.54	[14.07; 23.87]	1169	1.01
b	1.83	[1.83; 1.84]	7514	1.00
c	0.32	[0.21; 0.51]	1063	1.01
σ_β	0.14	[0.01; 0.58]	1645	1.00
ϕ_β	17.22	[0.66; 14754.93]	1329	1.00
σ_η	0.09	[0.00; 0.43]	1361	1.00
η_1	–4.93	[–5.63; –4.39]	1579	1.00
η_2	–4.78	[–6.53; –2.97]	1798	1.00
η_3	–4.51	[–7.13; –2.11]	1834	1.00
η_4	–4.43	[–7.62; –1.56]	1824	1.01
η_5	–4.48	[–8.12; –1.03]	1799	1.00
η_6	–4.65	[–8.56; –0.75]	1853	1.00

Modesto, Usa – GPLM0



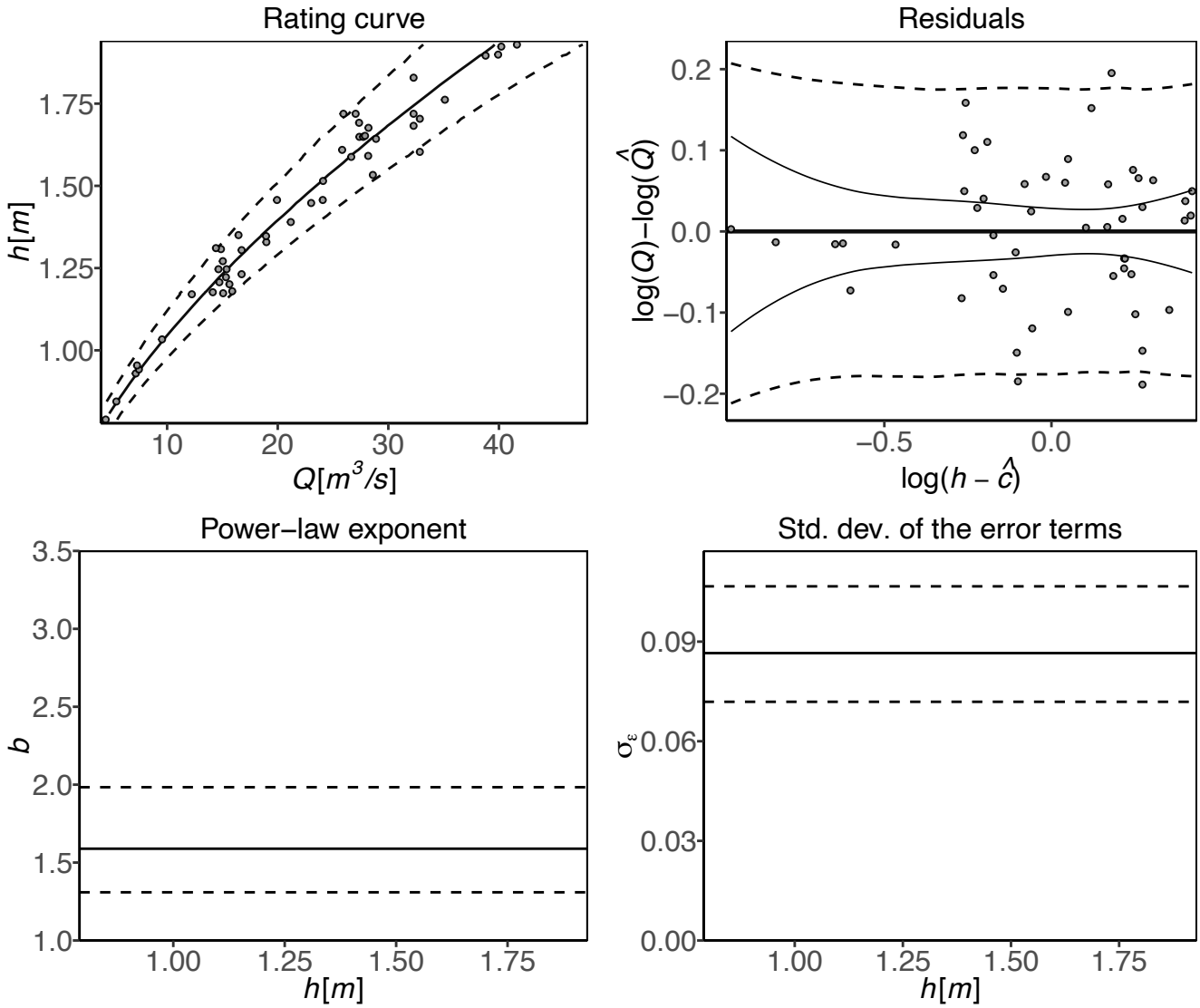
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	17.48	[13.95; 23.63]	1983	1.00
b	1.83	[1.83; 1.84]	9791	1.00
c	0.32	[0.20; 0.50]	1783	1.00
σ_ε	0.09	[0.07; 0.11]	4230	1.00
σ_β	0.38	[0.08; 0.77]	3491	1.00
ϕ_β	19.44	[0.69; 16718.34]	2521	1.00

Modesto, Usa – PLM



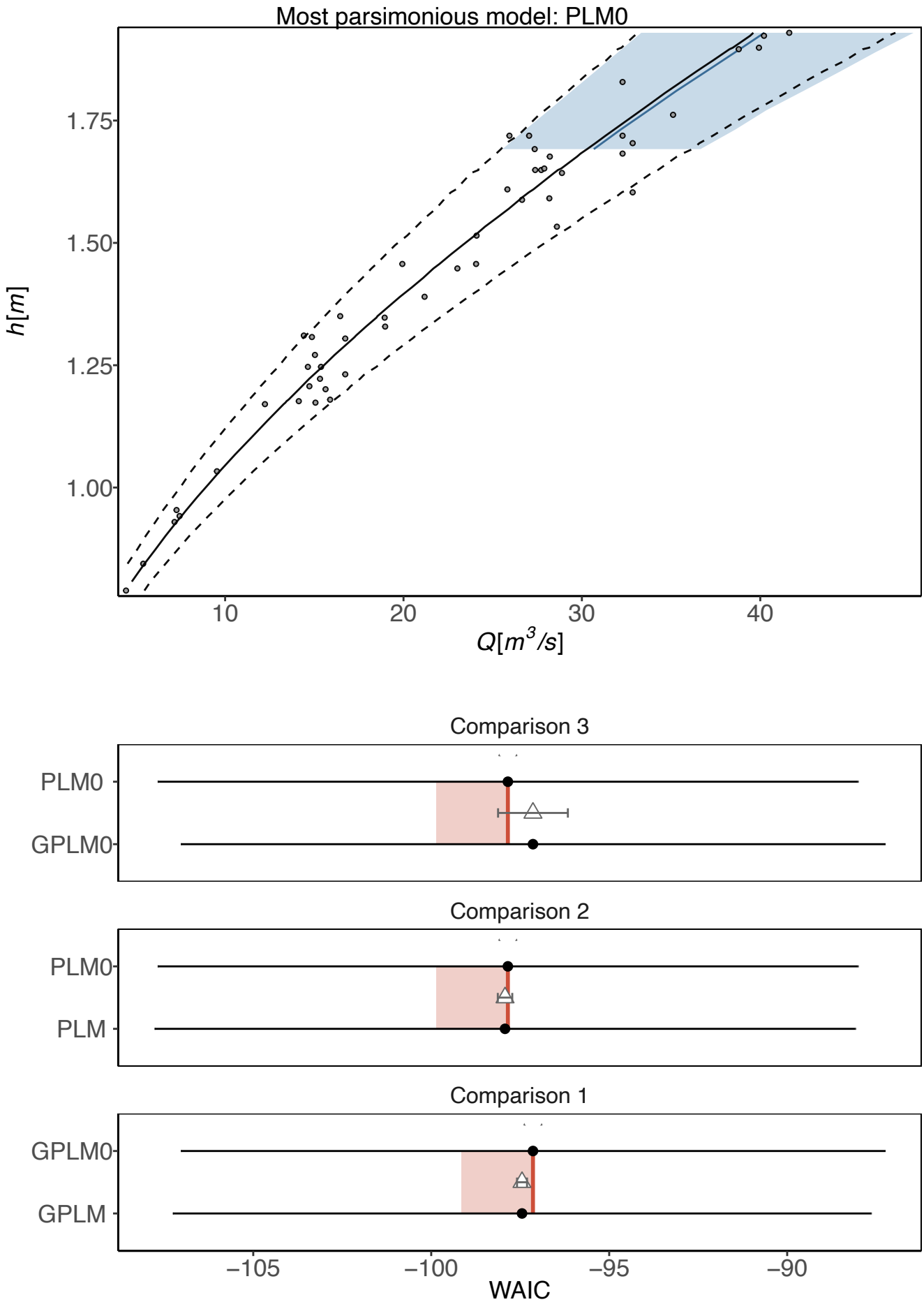
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	20.45	[14.00; 24.89]	2587	1.00
b	1.58	[1.31; 1.98]	2626	1.00
c	0.41	[0.21; 0.54]	2559	1.00
σ_η	0.09	[0.00; 0.49]	1473	1.01
η_1	–4.95	[–5.94; –4.40]	1329	1.01
η_2	–4.81	[–6.60; –2.95]	2302	1.00
η_3	–4.49	[–7.10; –2.13]	2324	1.00
η_4	–4.40	[–7.54; –1.43]	2610	1.00
η_5	–4.47	[–8.15; –1.05]	2368	1.00
η_6	–4.65	[–8.55; –0.69]	2658	1.00

Modesto, Usa – PLM0



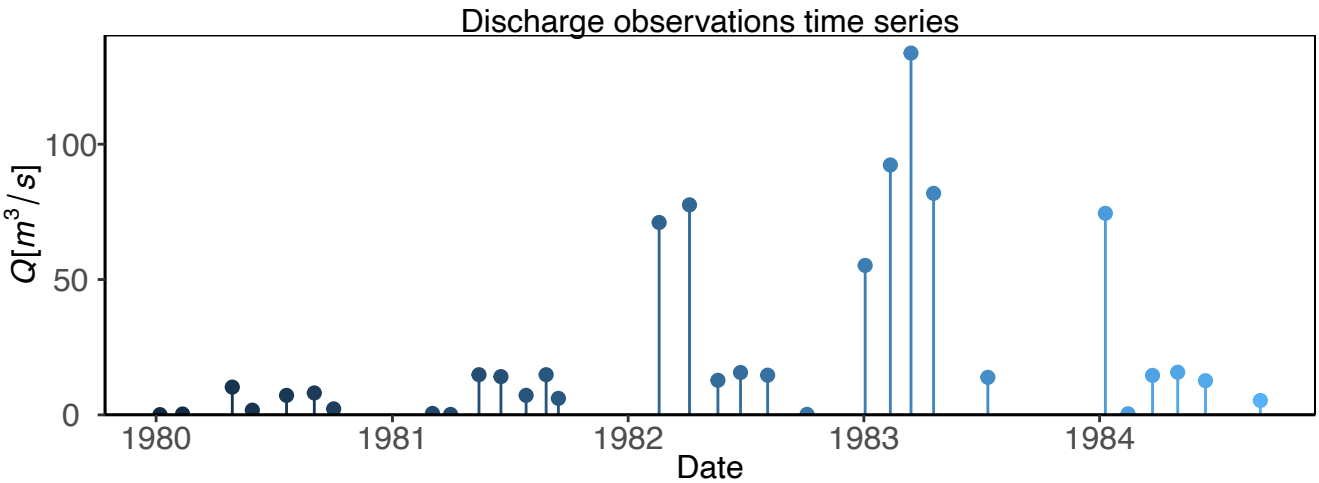
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	20.35	[13.75; 24.99]	10189	1.00
b	1.59	[1.31; 1.98]	10397	1.00
c	0.41	[0.20; 0.54]	10254	1.00
σ_ε	0.09	[0.07; 0.11]	9799	1.00

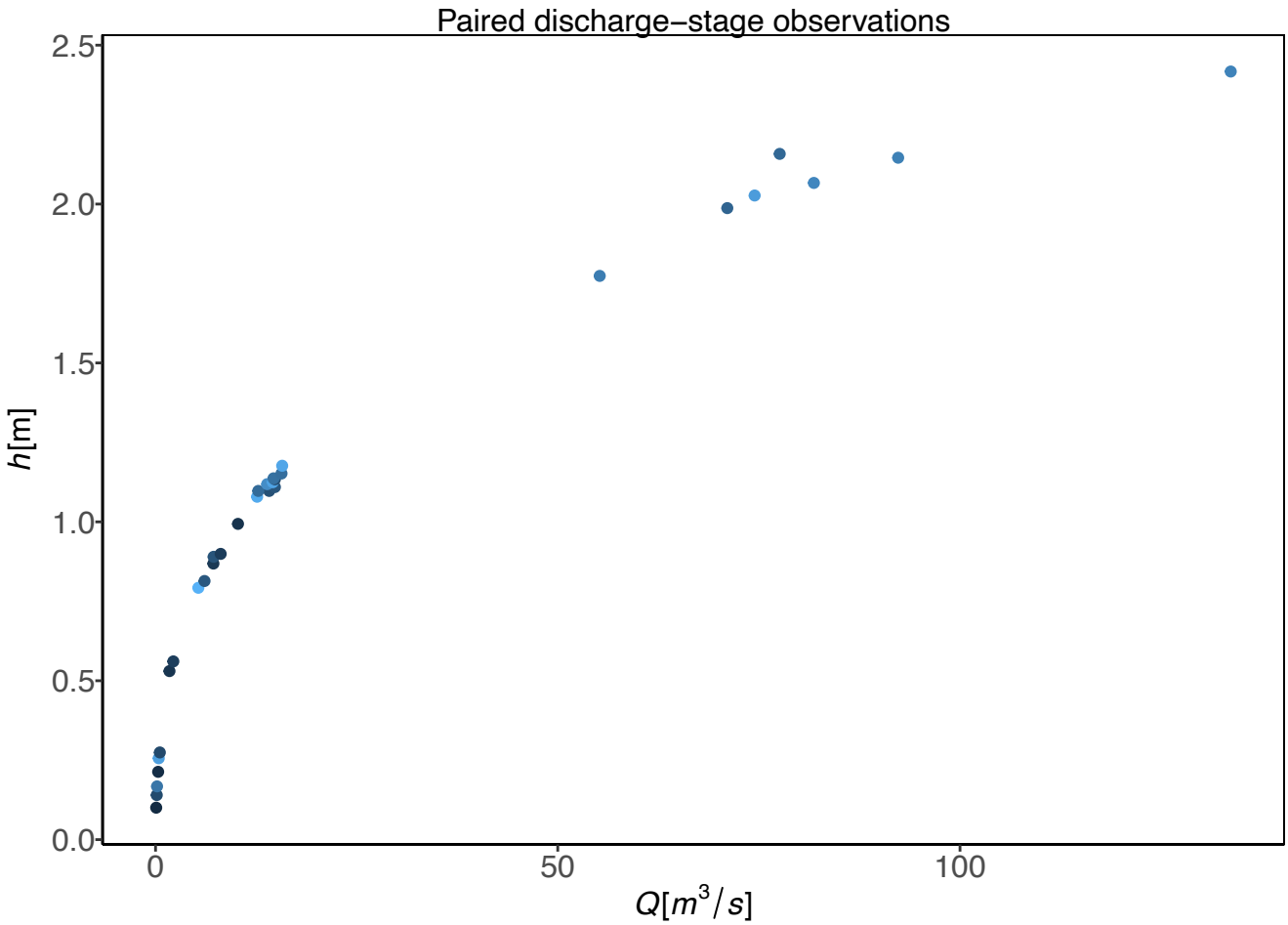
Power−law tournament results for Modesto, Usa



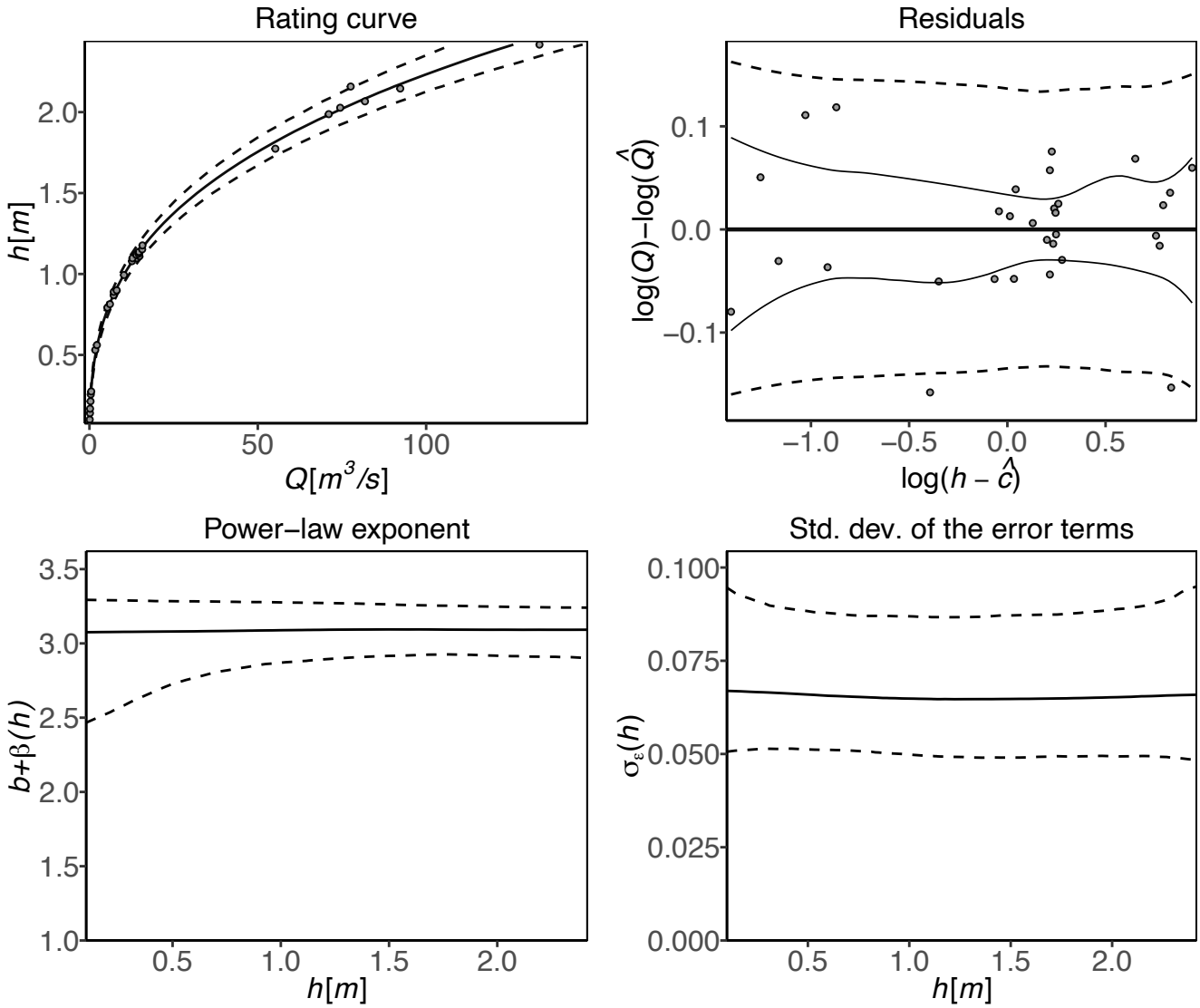
Station name:	Cache
Location:	California, USA
Station number:	11451000
Number of observations:	31
Start date:	1980–01–07
End date:	1984–09–06
Max. discharge (m^3/s):	133.7
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.60	0.22
GPLM0	0.55	0.22
PLM	0.20	0.27
PLM0	0.00	0.29



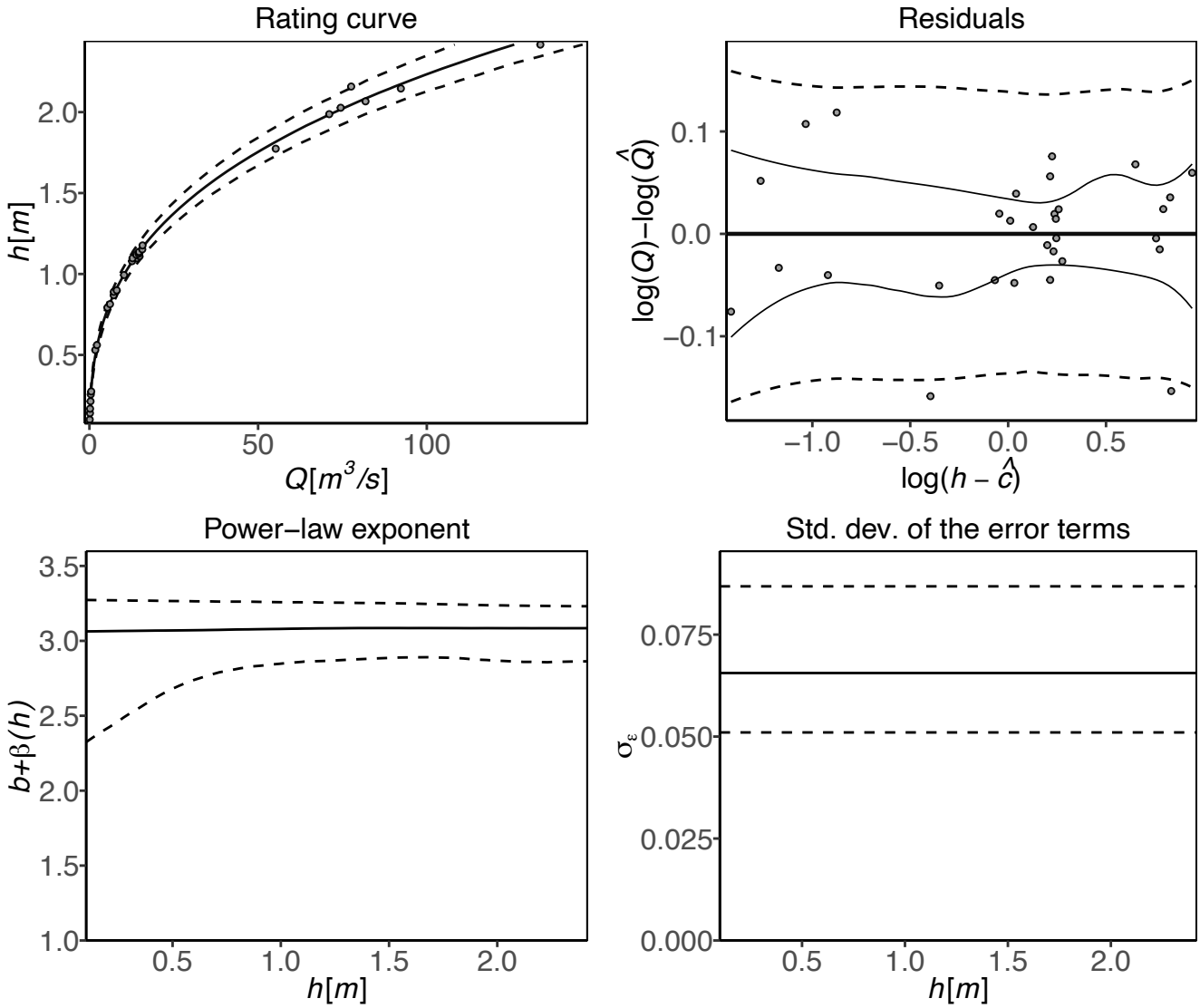


Cache, Usa – GPLM



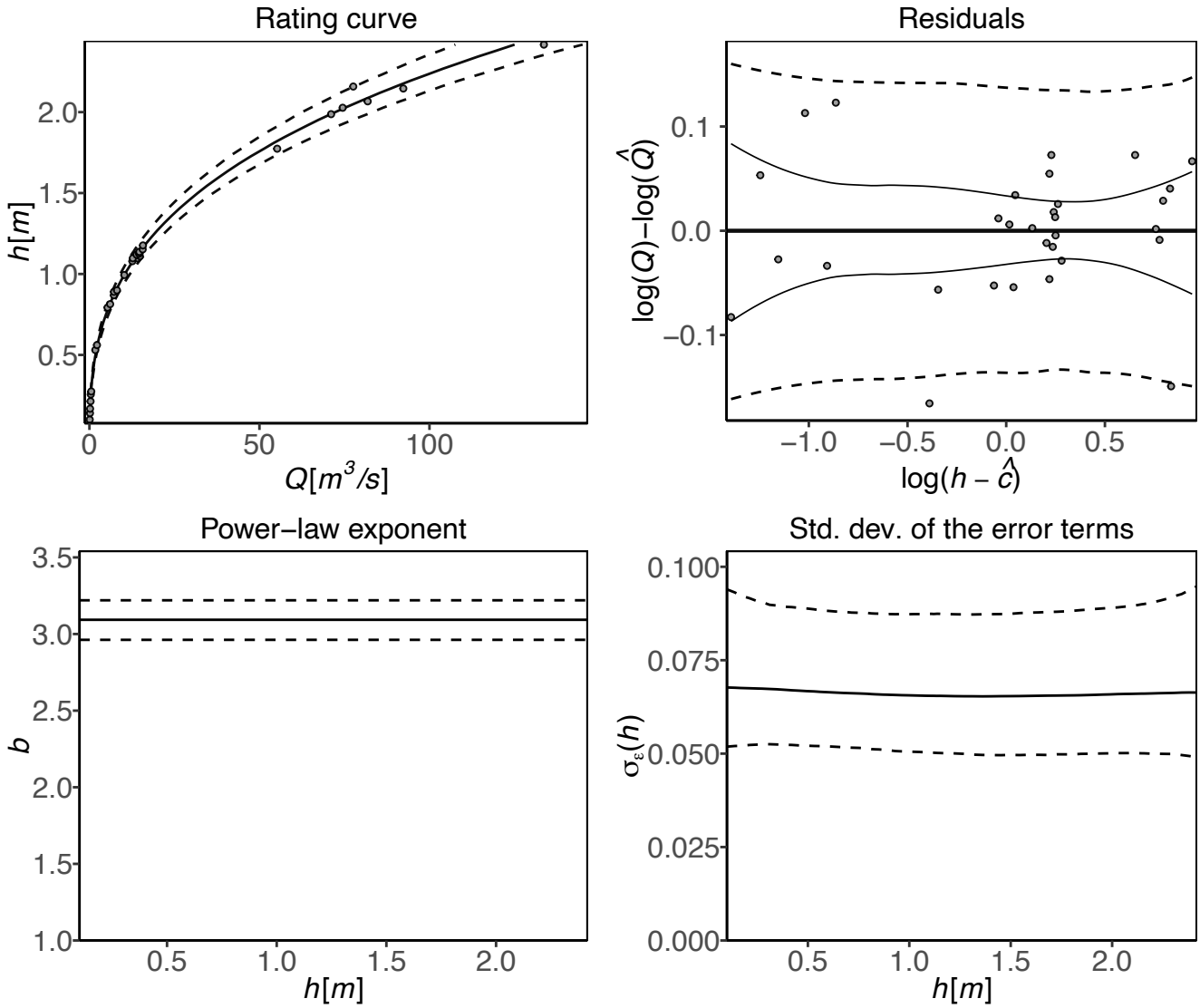
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.86	[5.85; 8.89]	992	1.01
b	1.84	[1.83; 1.84]	9285	1.00
c	–0.14	[–0.19; –0.05]	872	1.01
σ_β	0.67	[0.39; 1.26]	2255	1.00
ϕ_β	36.65	[1.63; 72857.61]	964	1.01
σ_η	0.08	[0.00; 0.47]	1594	1.00
η_1	–5.41	[–5.97; –4.72]	1706	1.00
η_2	–5.48	[–7.36; –3.57]	2157	1.00
η_3	–5.77	[–8.23; –3.06]	2301	1.00
η_4	–5.81	[–8.86; –2.52]	2172	1.00
η_5	–5.62	[–9.20; –2.02]	2242	1.00
η_6	–5.57	[–9.62; –1.54]	2448	1.00

Cache, Usa – GPLM0



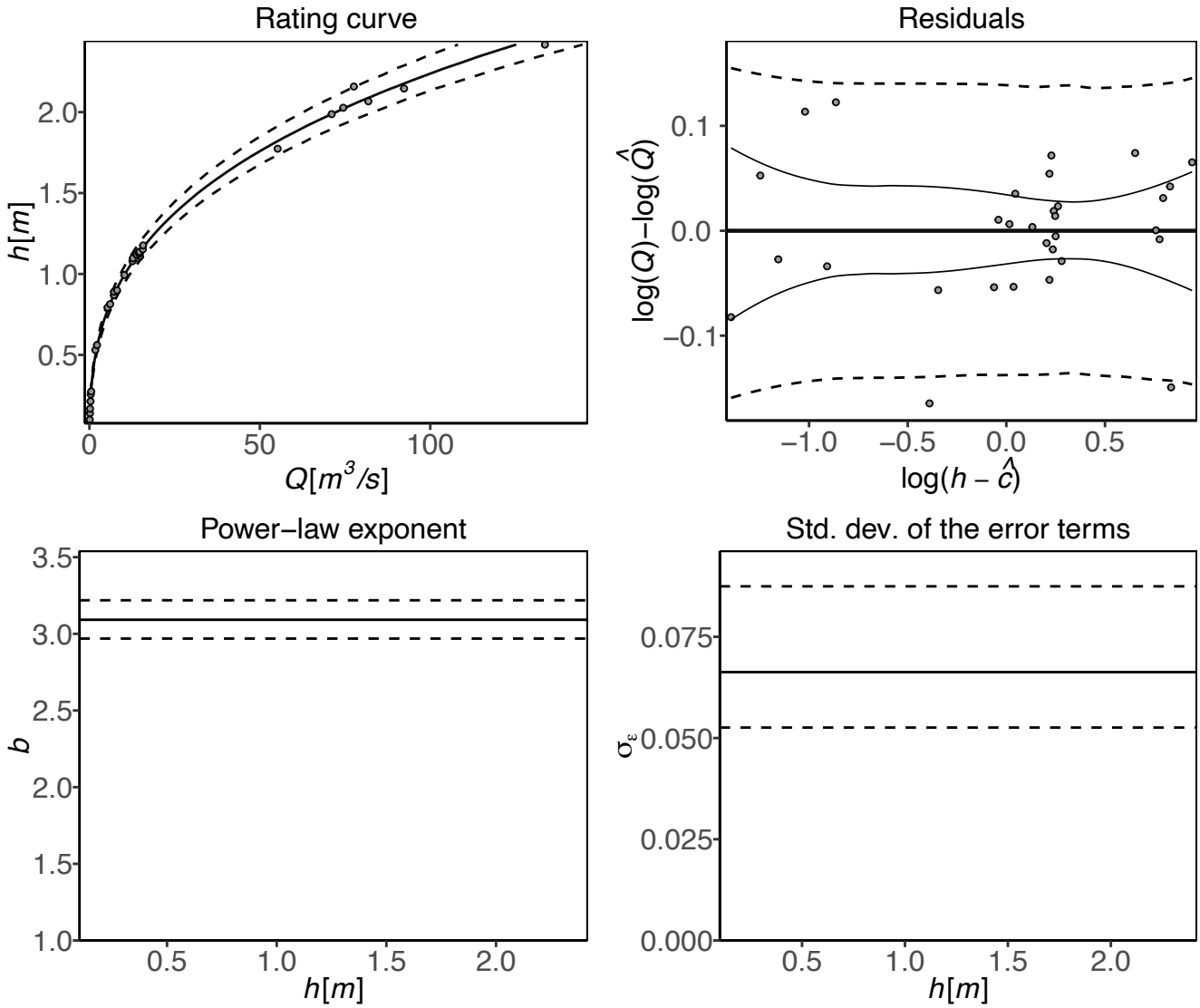
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.91	[5.94; 9.47]	1110	1.02
b	1.84	[1.83; 1.84]	10786	1.00
c	–0.14	[–0.18; –0.03]	940	1.03
σ_ε	0.07	[0.05; 0.09]	4063	1.00
σ_β	0.81	[0.62; 1.10]	4935	1.00
ϕ_β	31.06	[1.34; 17549.08]	1451	1.01

Cache, Usa – PLM

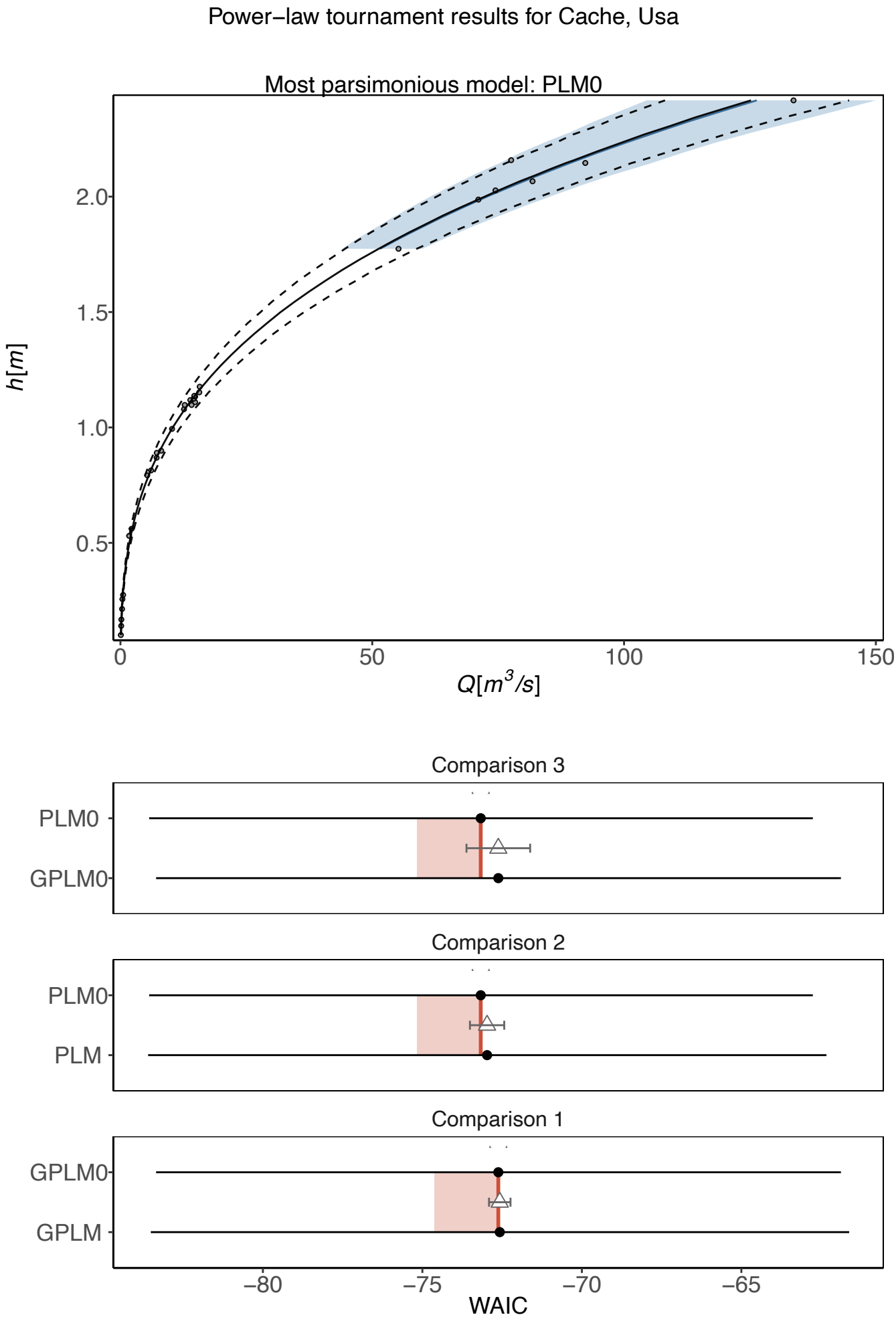


	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.80	[6.06; 7.59]	2510	1.00
b	3.09	[2.96; 3.22]	2564	1.00
c	–0.15	[–0.18; –0.12]	2405	1.00
σ_η	0.08	[0.00; 0.44]	1763	1.00
η_1	–5.39	[–5.92; –4.73]	2351	1.00
η_2	–5.48	[–7.33; –3.65]	2762	1.00
η_3	–5.75	[–8.25; –3.09]	2886	1.00
η_4	–5.84	[–8.85; –2.60]	2891	1.00
η_5	–5.65	[–9.22; –2.03]	2814	1.00
η_6	–5.60	[–9.63; –1.43]	2759	1.00

Cache, Usa – PLM0

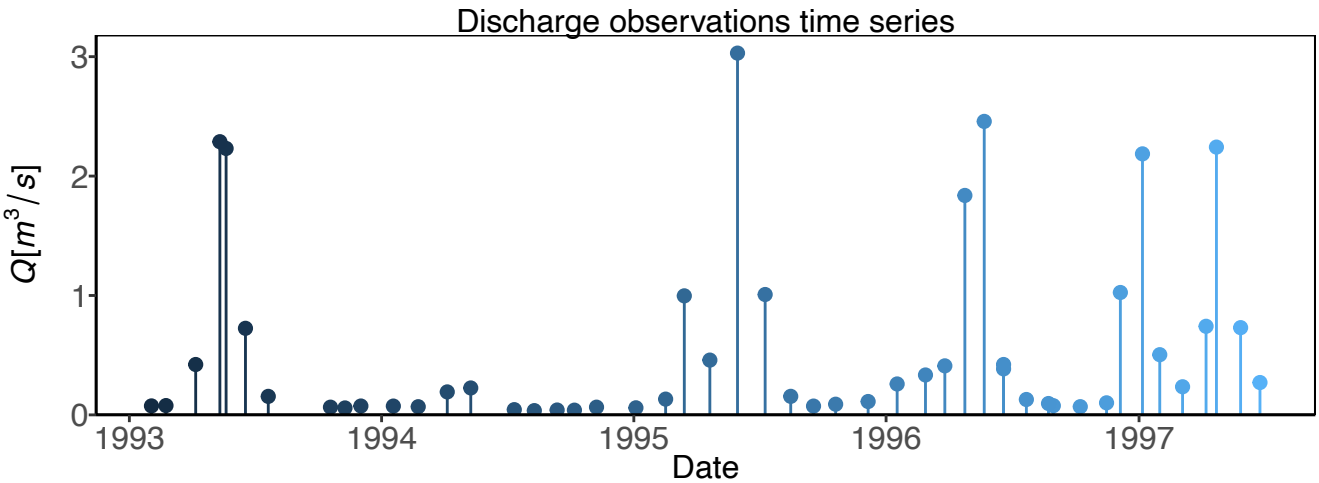


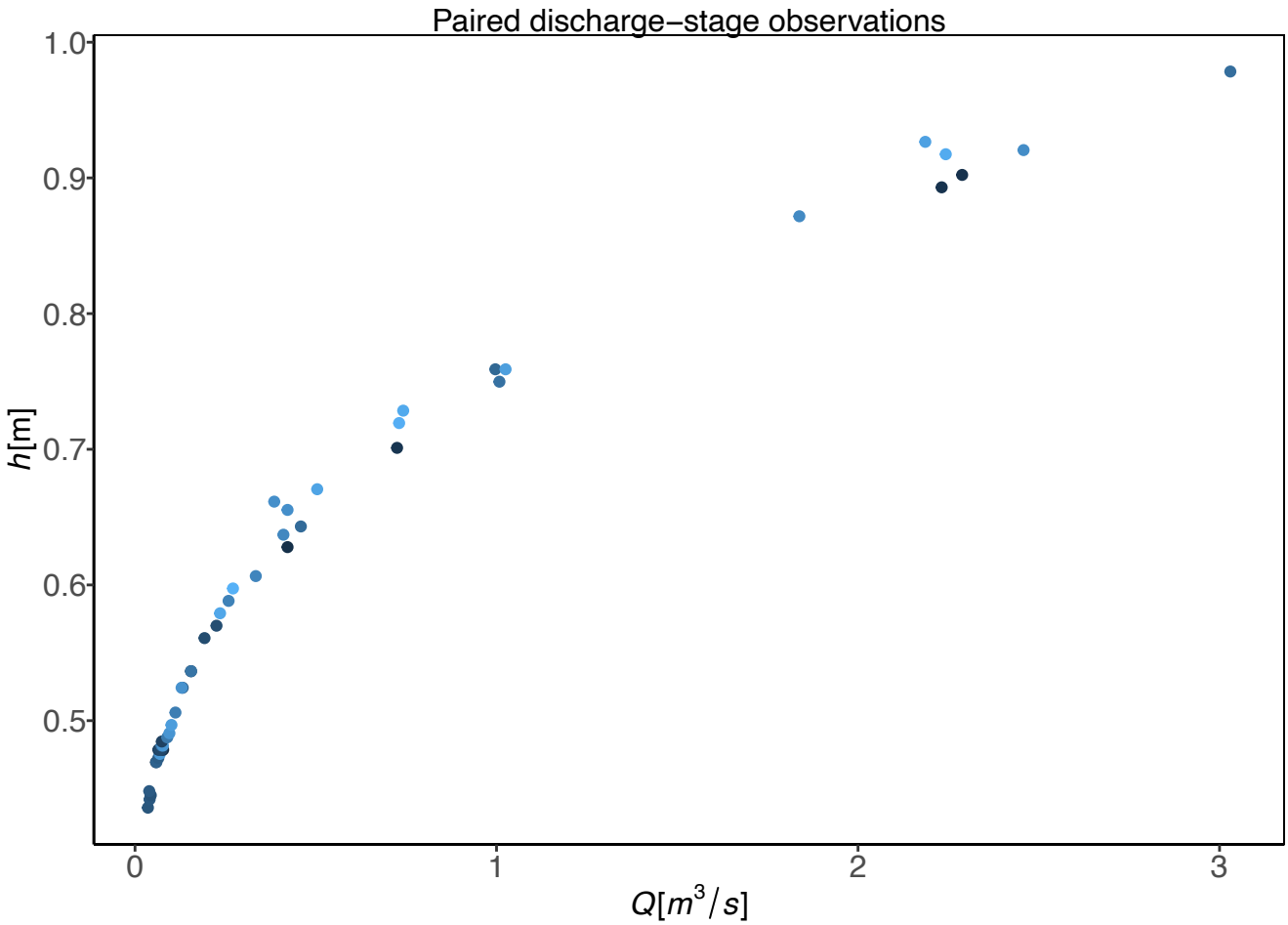
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.80	[6.07; 7.56]	9147	1.00
b	3.09	[2.97; 3.22]	9539	1.00
c	–0.15	[–0.18; –0.12]	8938	1.00
σ_ε	0.07	[0.05; 0.09]	9033	1.00


Power−law tournament results for Cache, Usa
Most parsimonious model: PLM0
h[m]
2.0
1.5
1.0
0.5
0
50
100
150
Q[m³/s]
Comparison 3
PLM0
GPLM0
Comparison 2
PLM0
PLM
Comparison 1
GPLM0
GPLM
−80
−75
−70
−65
WAIC

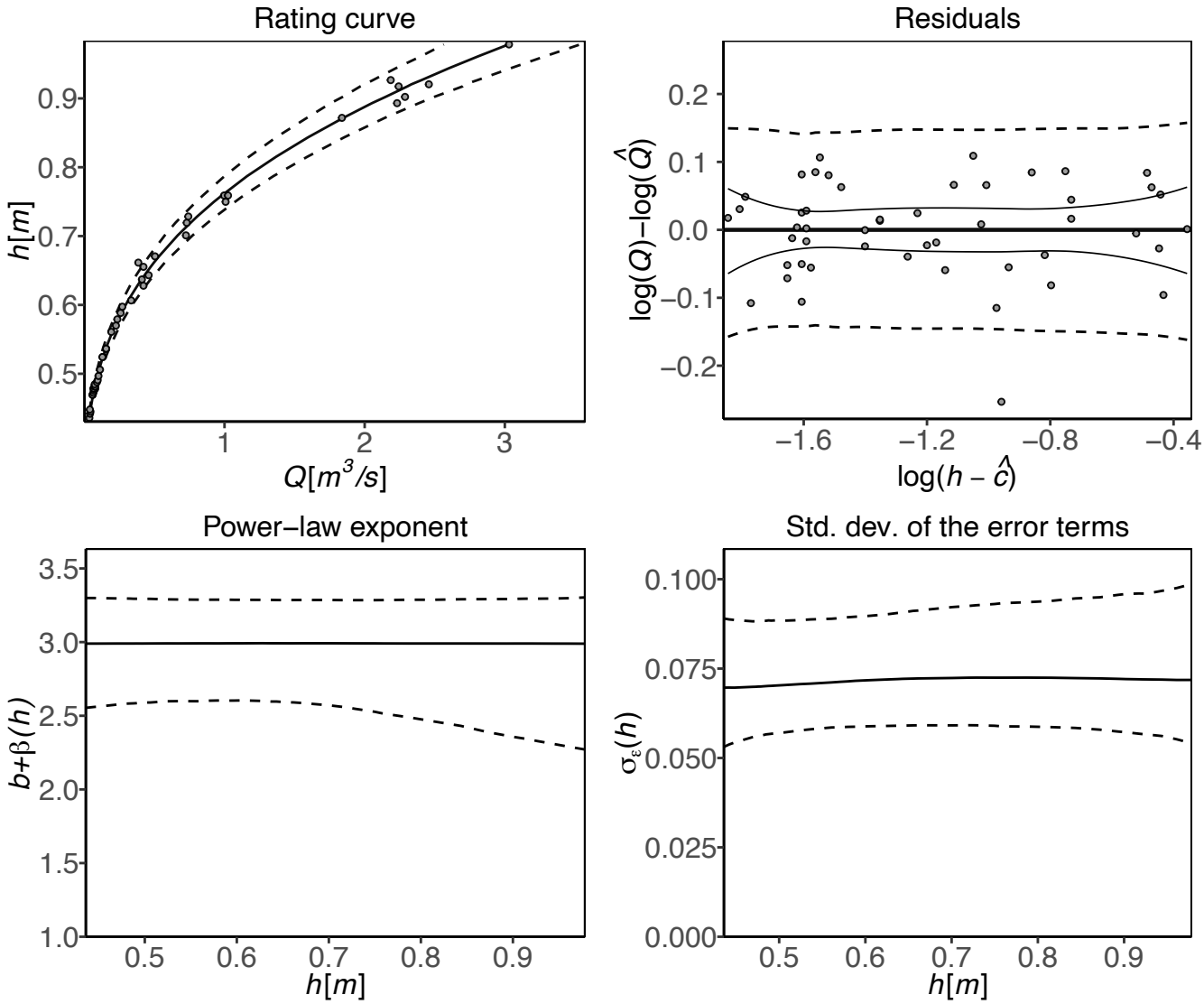
Station name:	Sagehen
Location:	California, USA
Station number:	10343500
Number of observations:	49
Start date:	1993–02–02
End date:	1997–06–25
Max. discharge (m^3/s):	3
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.00	0.26
GPLM0	0.15	0.24
PLM	0.13	0.24
PLM0	0.09	0.25



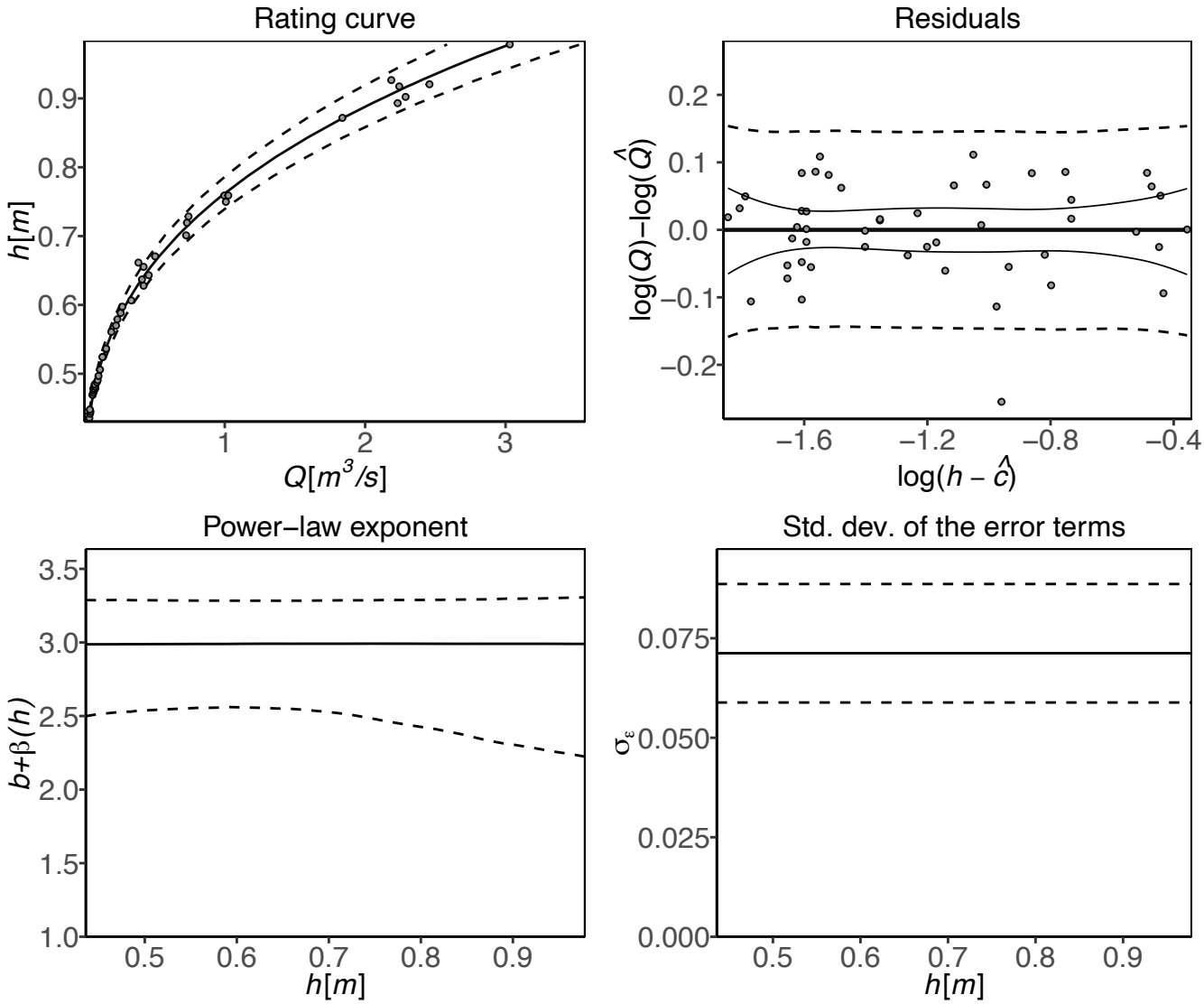


Sagehen, Usa – GPLM



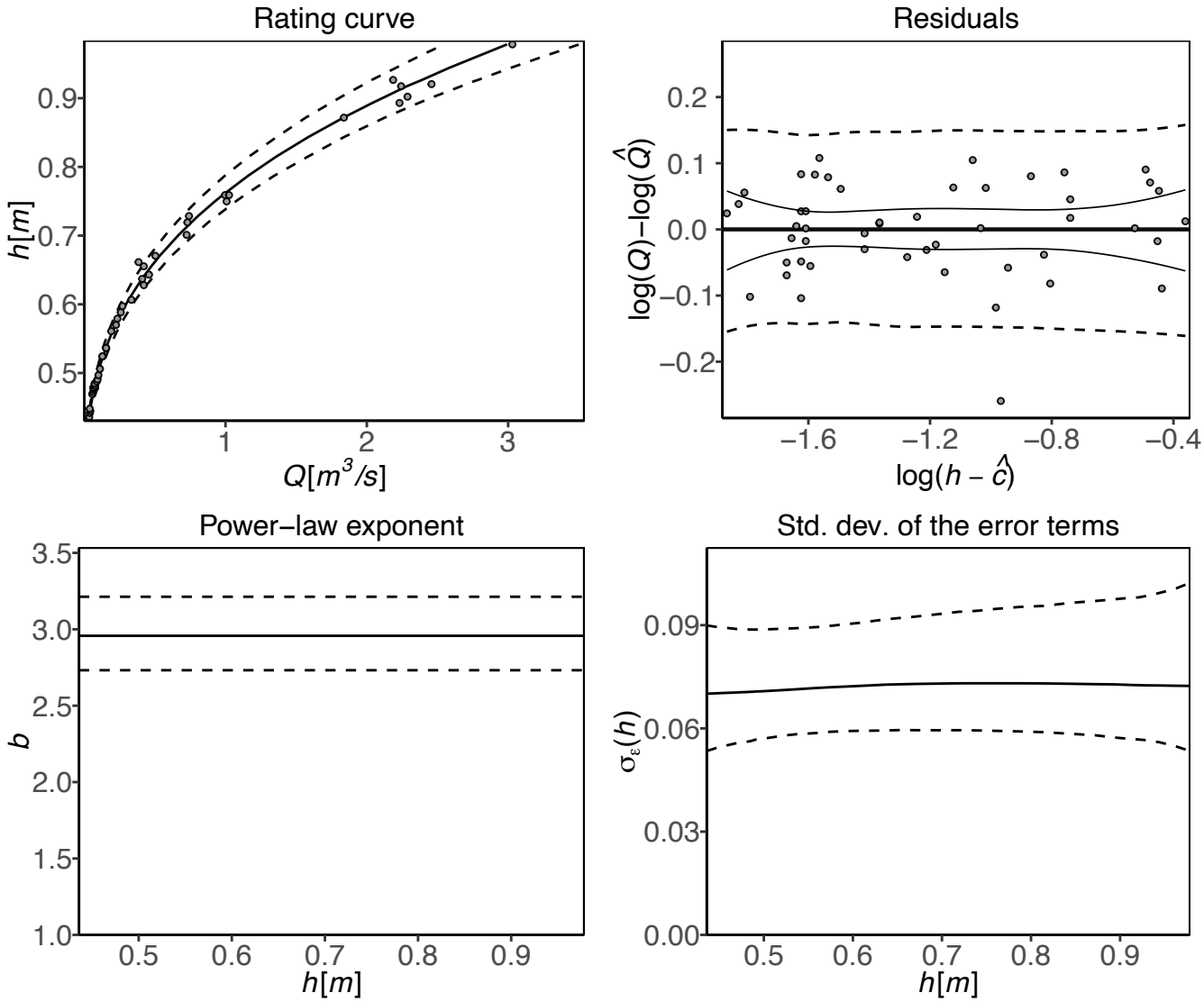
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.73	[7.03; 10.23]	3892	1.00
b	1.84	[1.83; 1.84]	8746	1.00
c	0.28	[0.24; 0.32]	1204	1.01
σ_β	0.64	[0.34; 1.24]	2035	1.00
ϕ_β	15.79	[0.69; 6274.51]	1357	1.00
σ_η	0.08	[0.00; 0.42]	1504	1.00
η_1	–5.33	[–5.87; –4.84]	2067	1.00
η_2	–5.19	[–7.09; –3.36]	2058	1.00
η_3	–4.81	[–7.61; –2.34]	2178	1.00
η_4	–4.74	[–8.04; –1.68]	2105	1.00
η_5	–4.86	[–8.49; –1.27]	2115	1.00
η_6	–4.91	[–8.94; –0.85]	2289	1.00

Sagehen, Usa – GPLM0



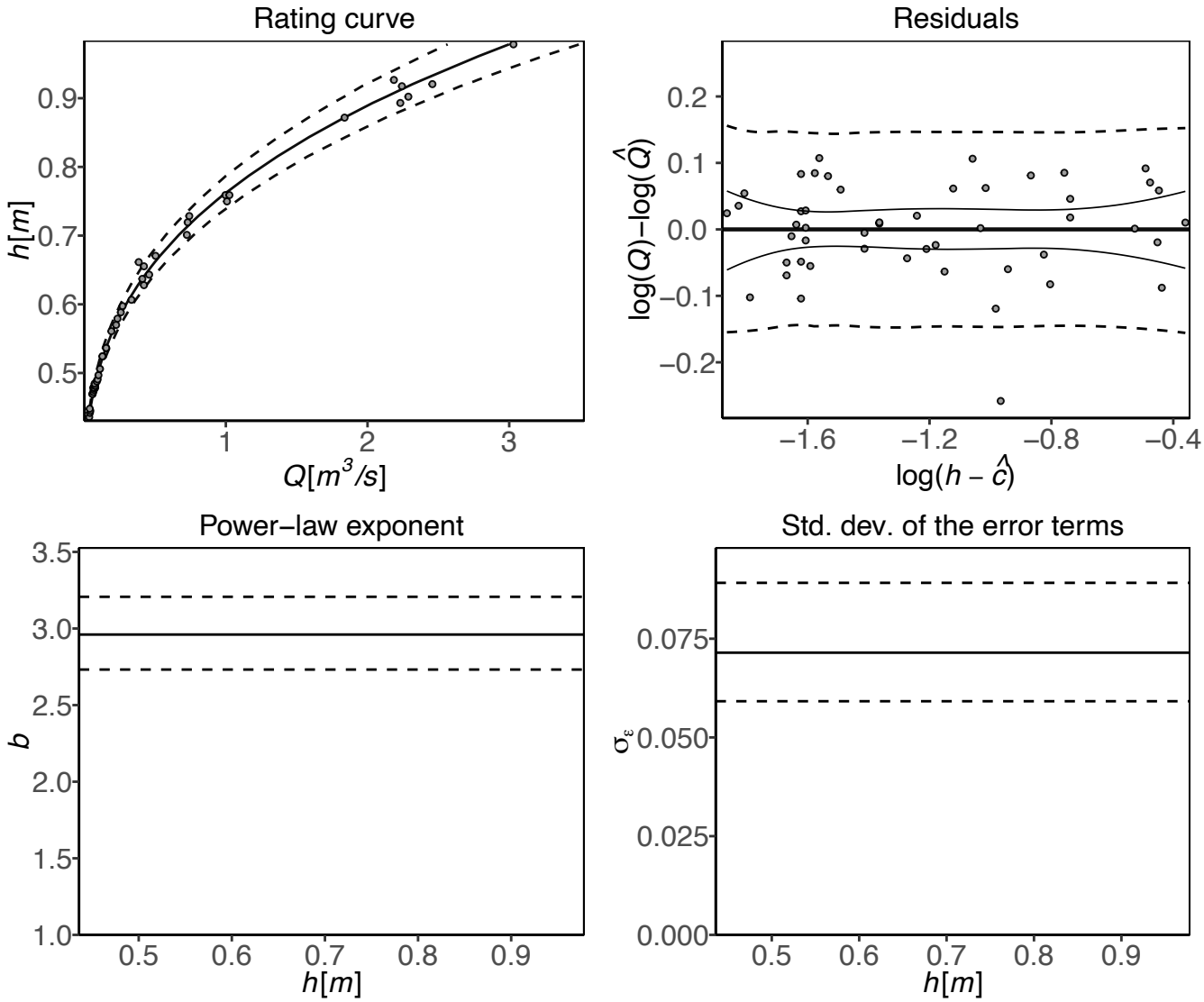
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.73	[7.03; 10.10]	4737	1.00
b	1.84	[1.83; 1.84]	11908	1.00
c	0.28	[0.25; 0.32]	1499	1.00
σ_ε	0.07	[0.06; 0.09]	4848	1.00
σ_β	0.80	[0.58; 1.12]	3505	1.00
ϕ_β	16.96	[0.62; 11482.59]	2374	1.00

Sagehen, Usa – PLM



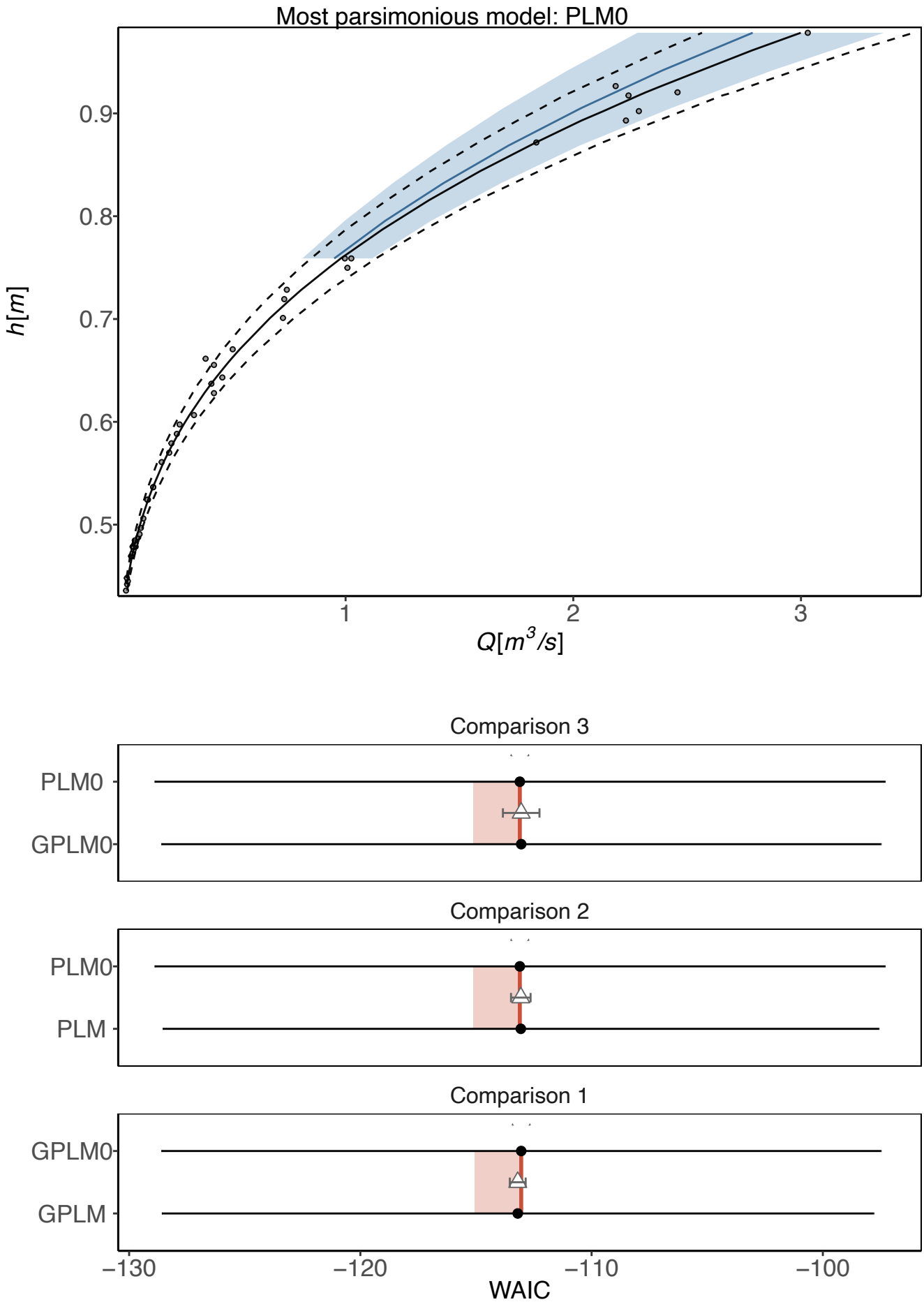
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.70	[8.13; 9.26]	7600	1.00
b	2.96	[2.73; 3.21]	2807	1.00
c	0.28	[0.26; 0.30]	2722	1.00
σ_η	0.08	[0.00; 0.44]	1392	1.00
η_1	–5.32	[–5.86; –4.82]	2448	1.00
η_2	–5.19	[–6.95; –3.33]	2680	1.00
η_3	–4.79	[–7.51; –2.31]	2652	1.00
η_4	–4.74	[–7.91; –1.69]	2717	1.00
η_5	–4.85	[–8.48; –1.28]	2758	1.00
η_6	–4.89	[–9.11; –0.86]	2575	1.00

Sagehen, Usa – PLM0



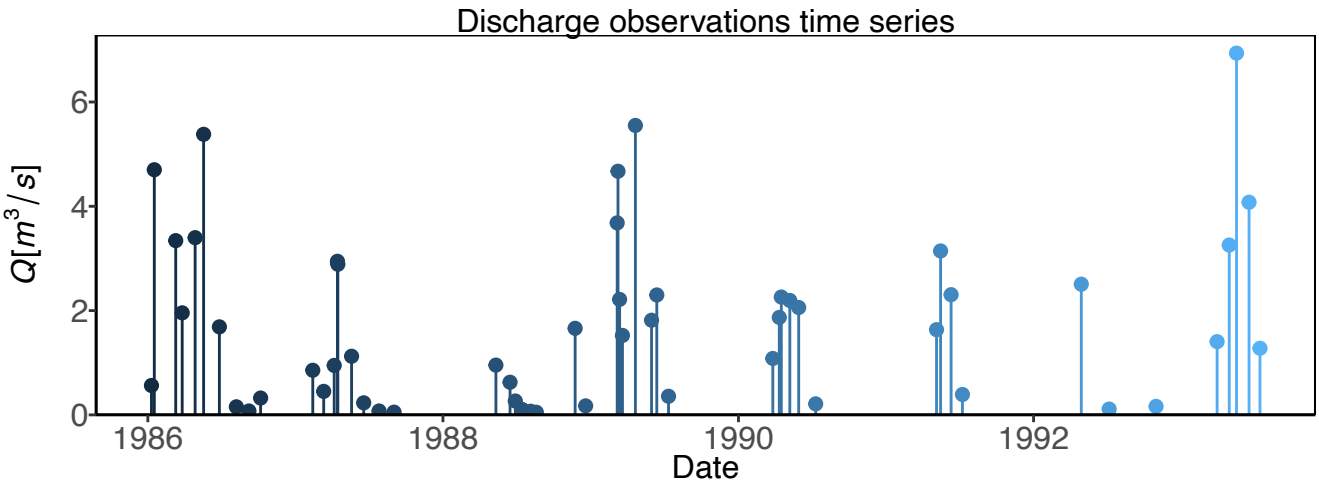
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.71	[8.17; 9.26]	14205	1.00
b	2.96	[2.73; 3.21]	9863	1.00
c	0.28	[0.26; 0.30]	9723	1.00
σ_ε	0.07	[0.06; 0.09]	8978	1.00

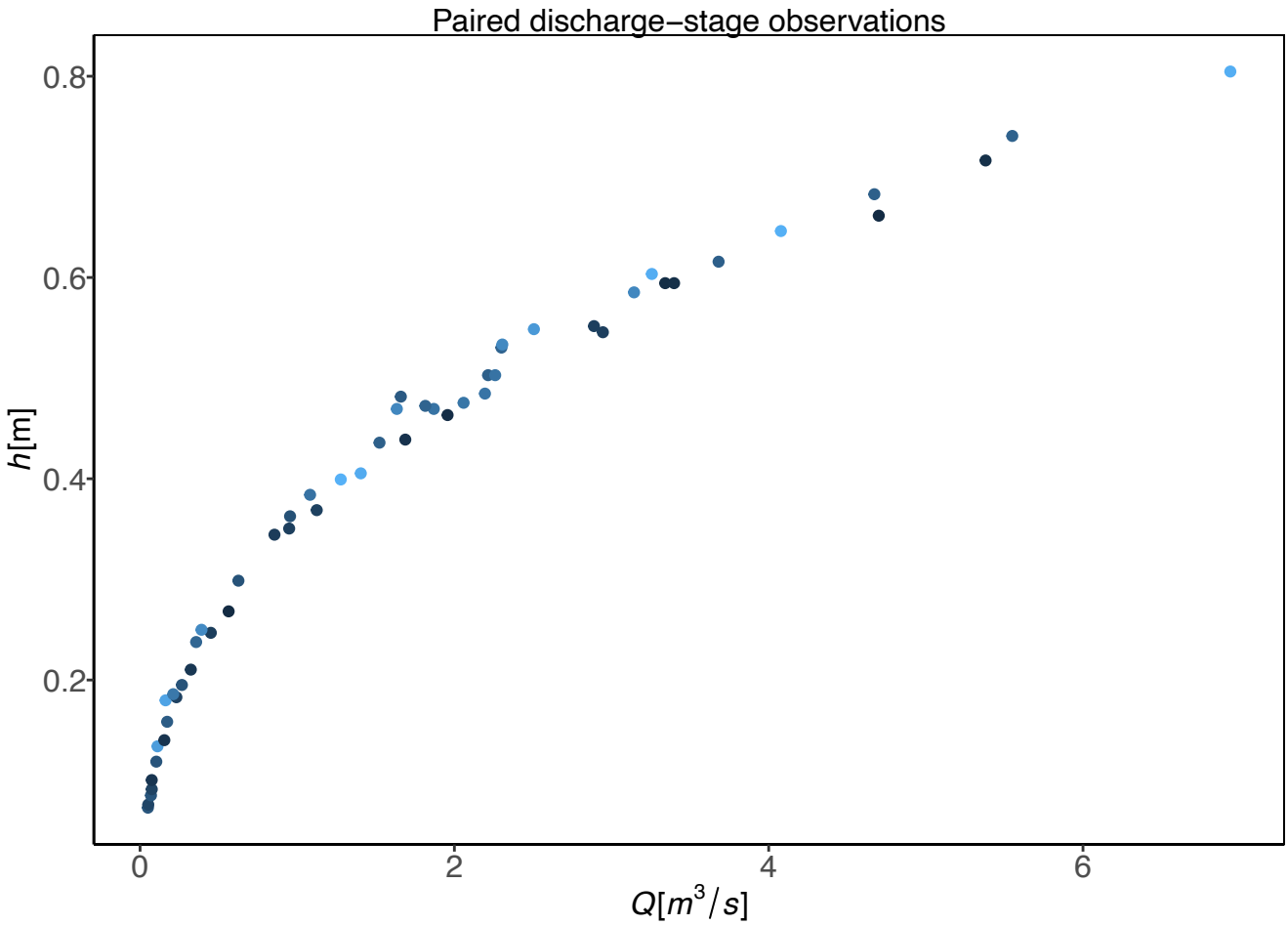
Power−law tournament results for Sagehen, Usa



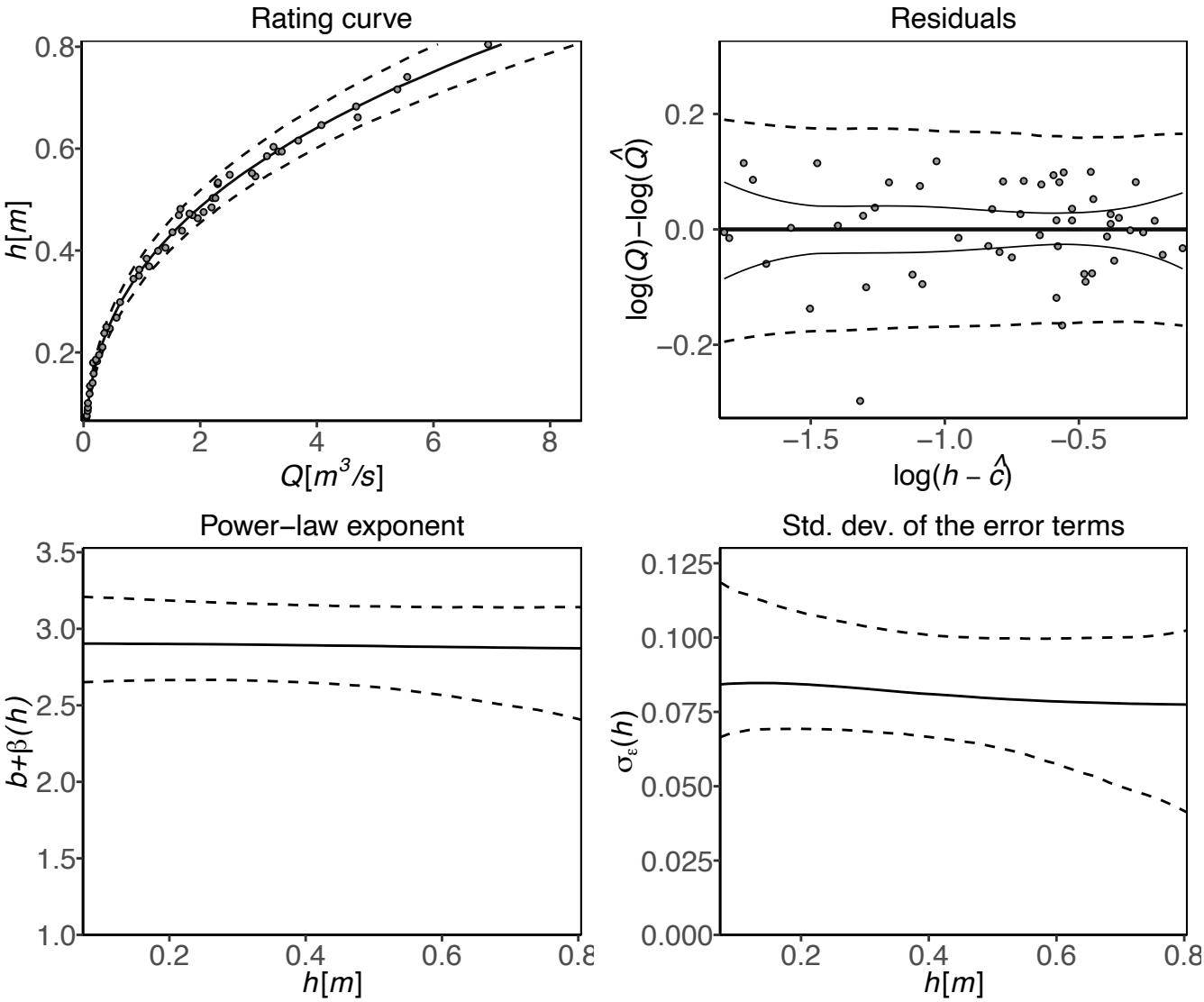
Station name:	Blackwood
Location:	California, USA
Station number:	10336660
Number of observations:	53
Start date:	1986–01–10
End date:	1993–07–14
Max. discharge (m^3/s):	6.9
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.19	0.31
GPLM0	1.23	0.18
PLM	0.00	0.34
PLM0	1.39	0.17



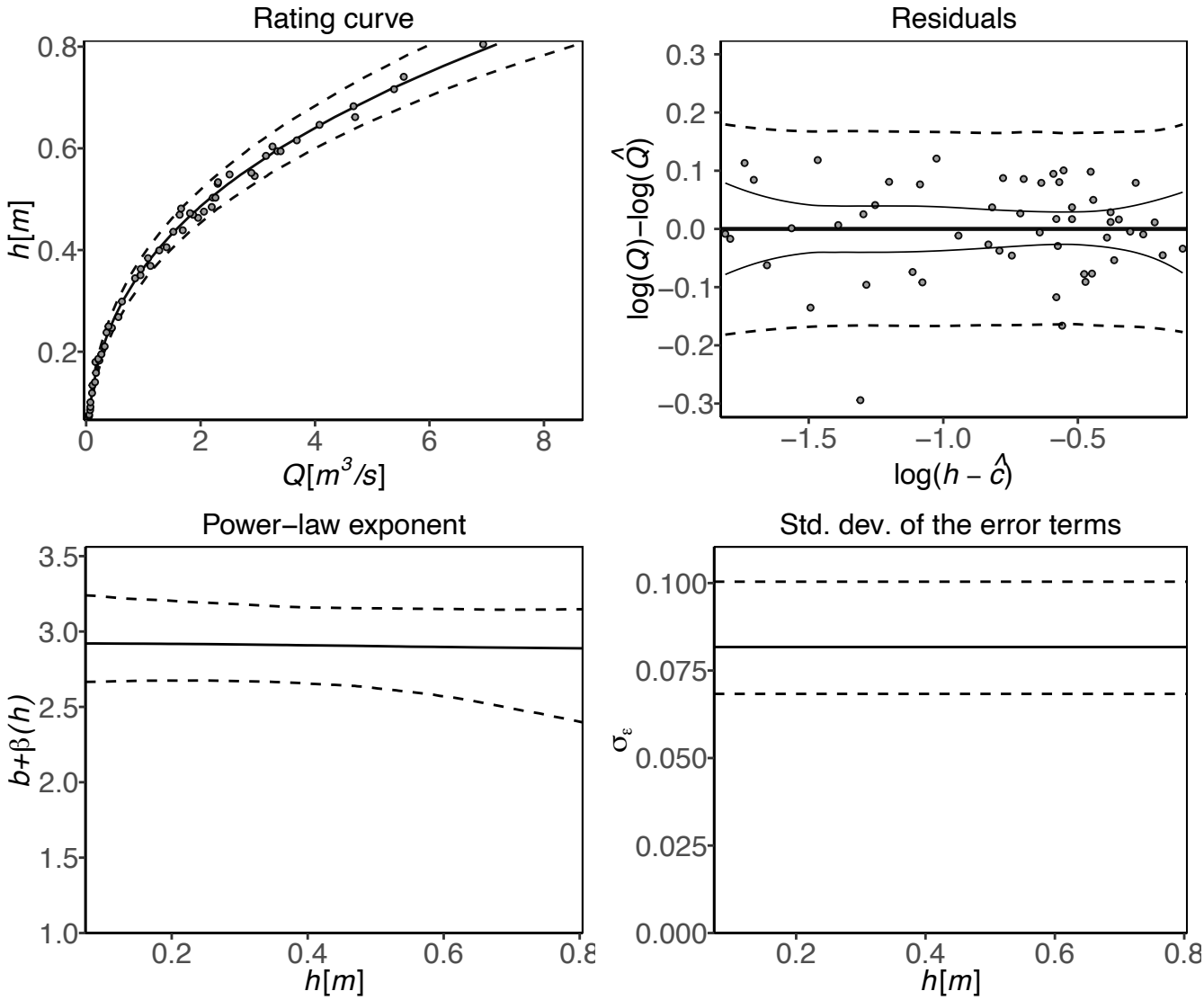


Blackwood, Usa – GPLM



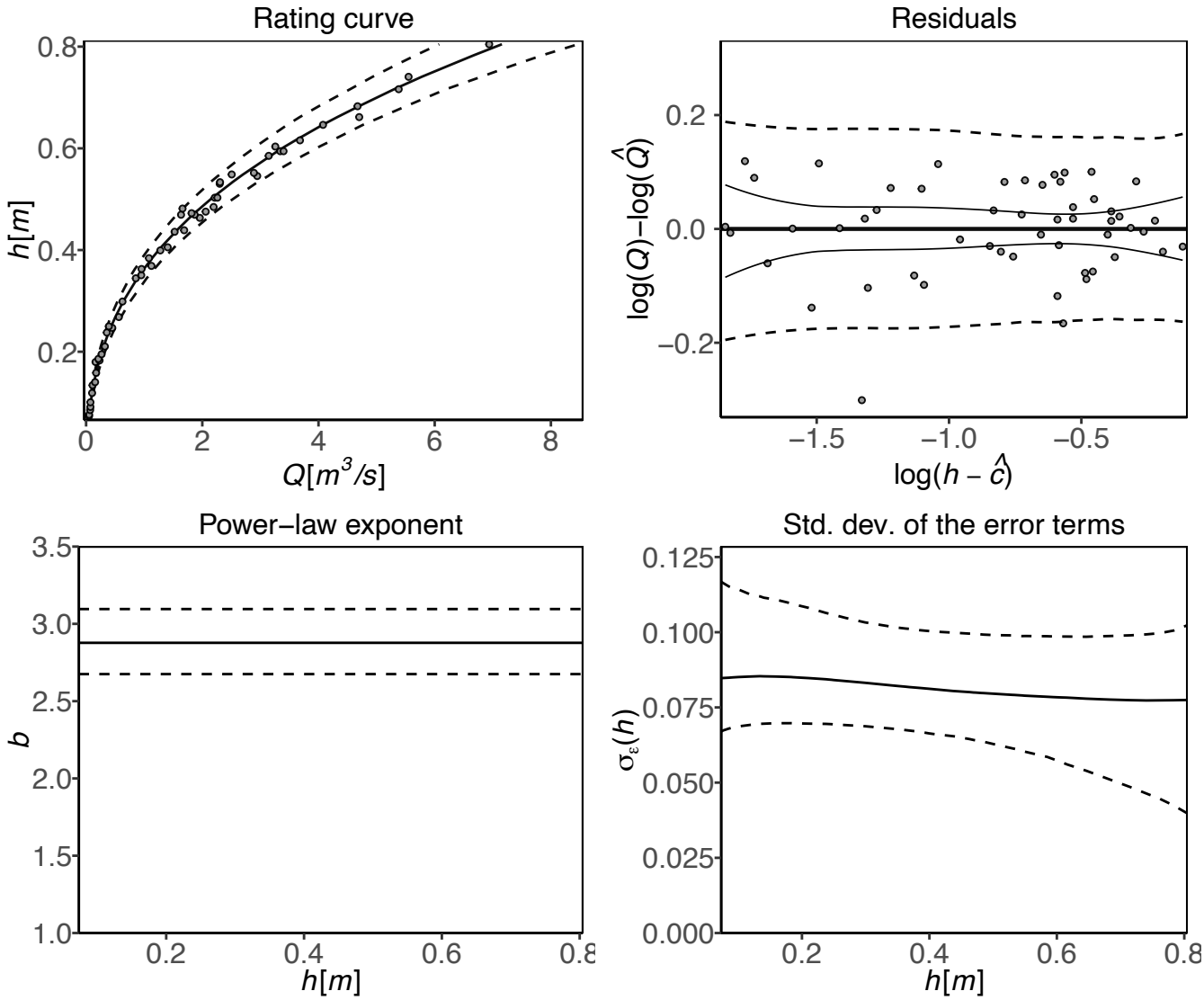
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.94	[8.39; 10.67]	2220	1.00
b	1.84	[1.83; 1.84]	8710	1.00
c	–0.09	[–0.13; –0.06]	1428	1.01
σ_β	0.61	[0.33; 1.20]	2122	1.00
ϕ_β	17.12	[0.97; 12574.79]	1298	1.01
σ_η	0.11	[0.00; 0.57]	1175	1.01
η_1	–4.95	[–5.42; –4.27]	2053	1.01
η_2	–4.85	[–6.74; –3.13]	1885	1.00
η_3	–5.26	[–7.73; –2.71]	1792	1.00
η_4	–5.66	[–8.54; –2.40]	1854	1.00
η_5	–6.00	[–9.56; –2.02]	2133	1.00
η_6	–6.11	[–10.08; –1.81]	2333	1.00

Blackwood, Usa – GPLM0



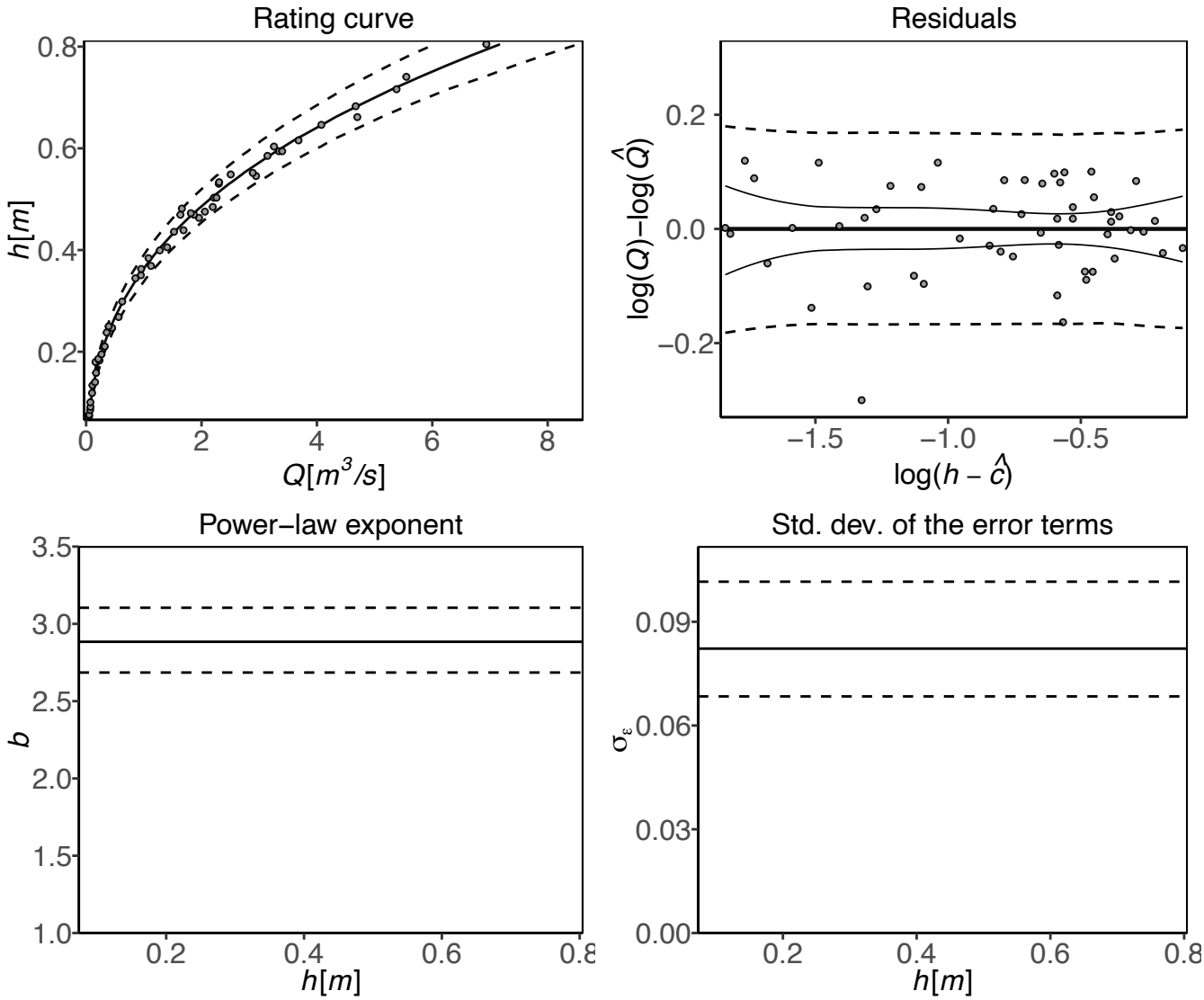
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.92	[8.22; 10.69]	3402	1.00
b	1.84	[1.83; 1.84]	13731	1.00
c	–0.09	[–0.13; –0.06]	2598	1.00
σ_ε	0.08	[0.07; 0.10]	5086	1.00
σ_β	0.78	[0.58; 1.10]	5292	1.00
ϕ_β	17.52	[0.97; 12971.08]	2583	1.00

Blackwood, Usa – PLM



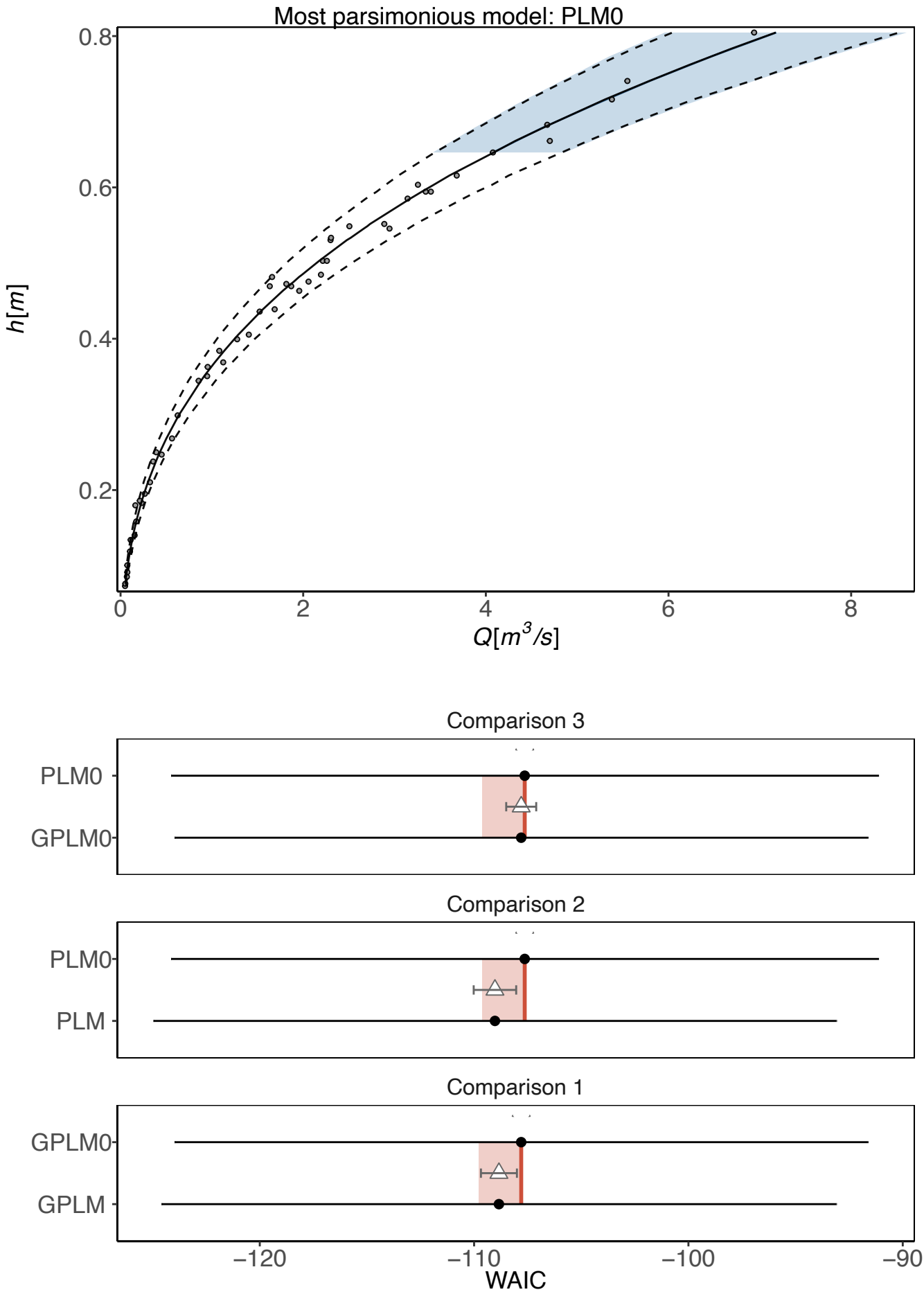
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.02	[9.55; 10.51]	6999	1.00
b	2.88	[2.67; 3.10]	2878	1.00
c	–0.08	[–0.11; –0.06]	2687	1.00
σ_η	0.12	[0.00; 0.58]	1278	1.01
η_1	–4.94	[–5.41; –4.29]	2831	1.00
η_2	–4.84	[–6.69; –3.18]	2310	1.00
η_3	–5.28	[–7.70; –2.76]	1927	1.00
η_4	–5.80	[–8.73; –2.47]	2177	1.00
η_5	–6.14	[–9.60; –2.20]	2656	1.00
η_6	–6.21	[–10.20; –1.73]	2653	1.00

Blackwood, Usa – PLM0



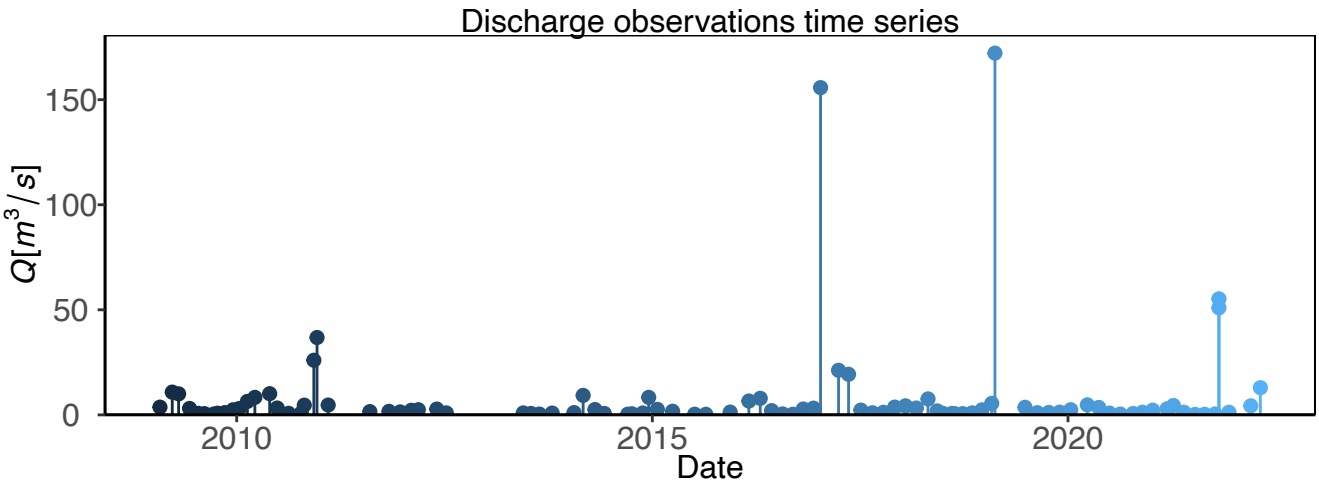
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.01	[9.53; 10.49]	14594	1.00
b	2.88	[2.69; 3.10]	9848	1.00
c	–0.09	[–0.11; –0.06]	9632	1.00
σ_ε	0.08	[0.07; 0.10]	9436	1.00

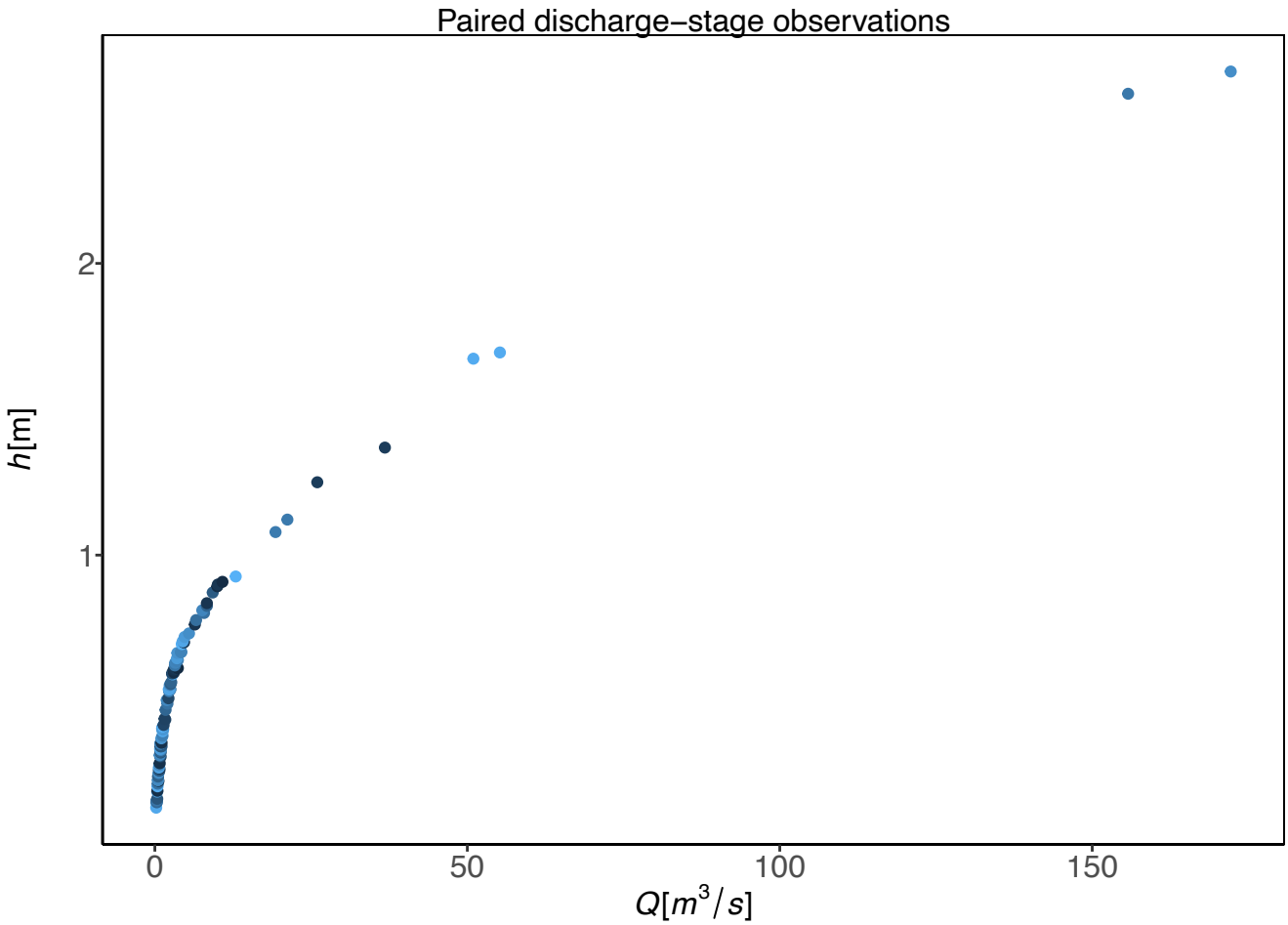
Power−law tournament results for Blackwood, Usa



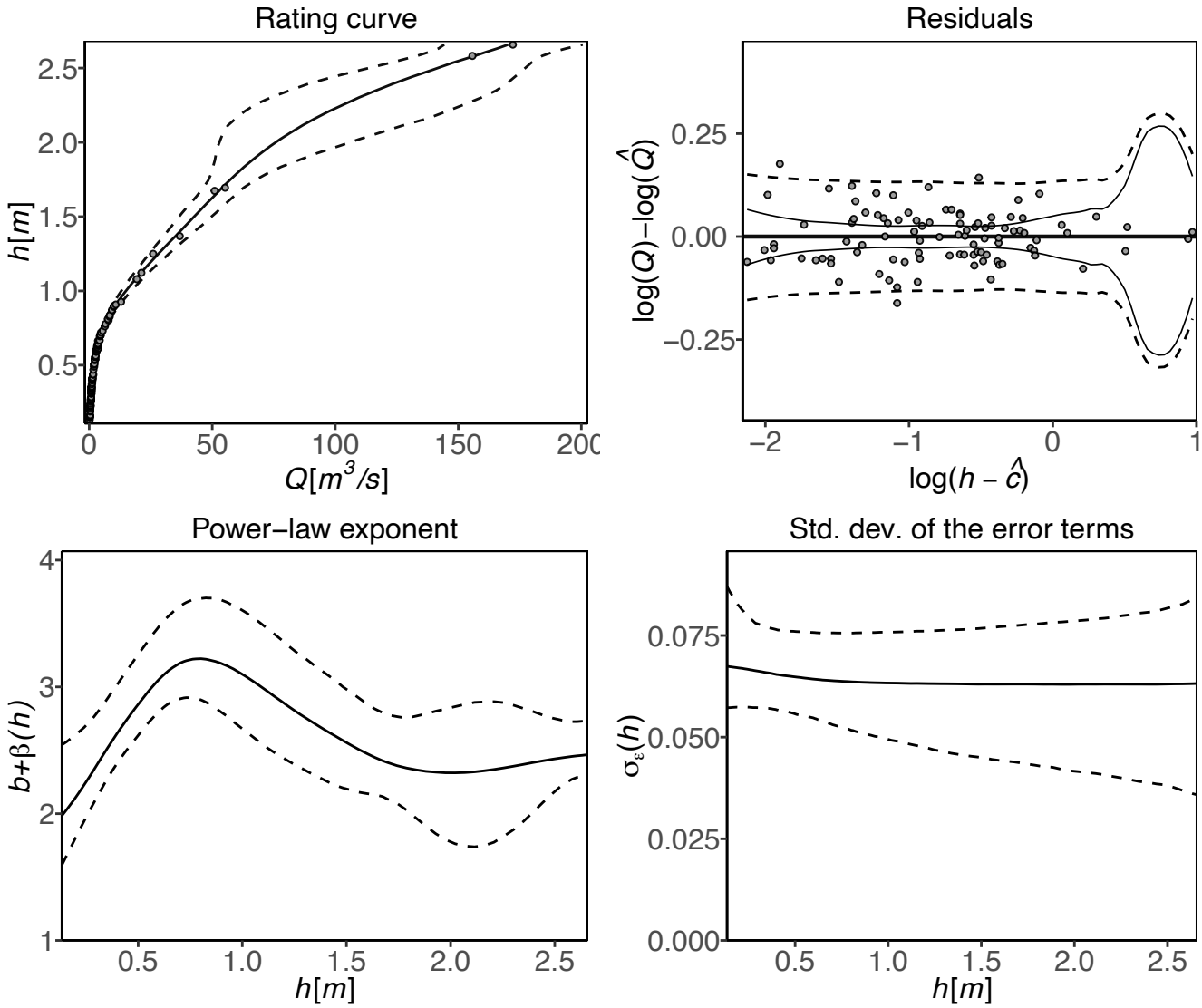
Station name:	Spanish
Location:	California, USA
Station number:	11402000
Number of observations:	98
Start date:	2009–01–29
End date:	2022–04–25
Max. discharge (m^3/s):	172.2
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.62
GPLM0	0.99	0.38
PLM	87.80	0.00
PLM0	101.89	0.00



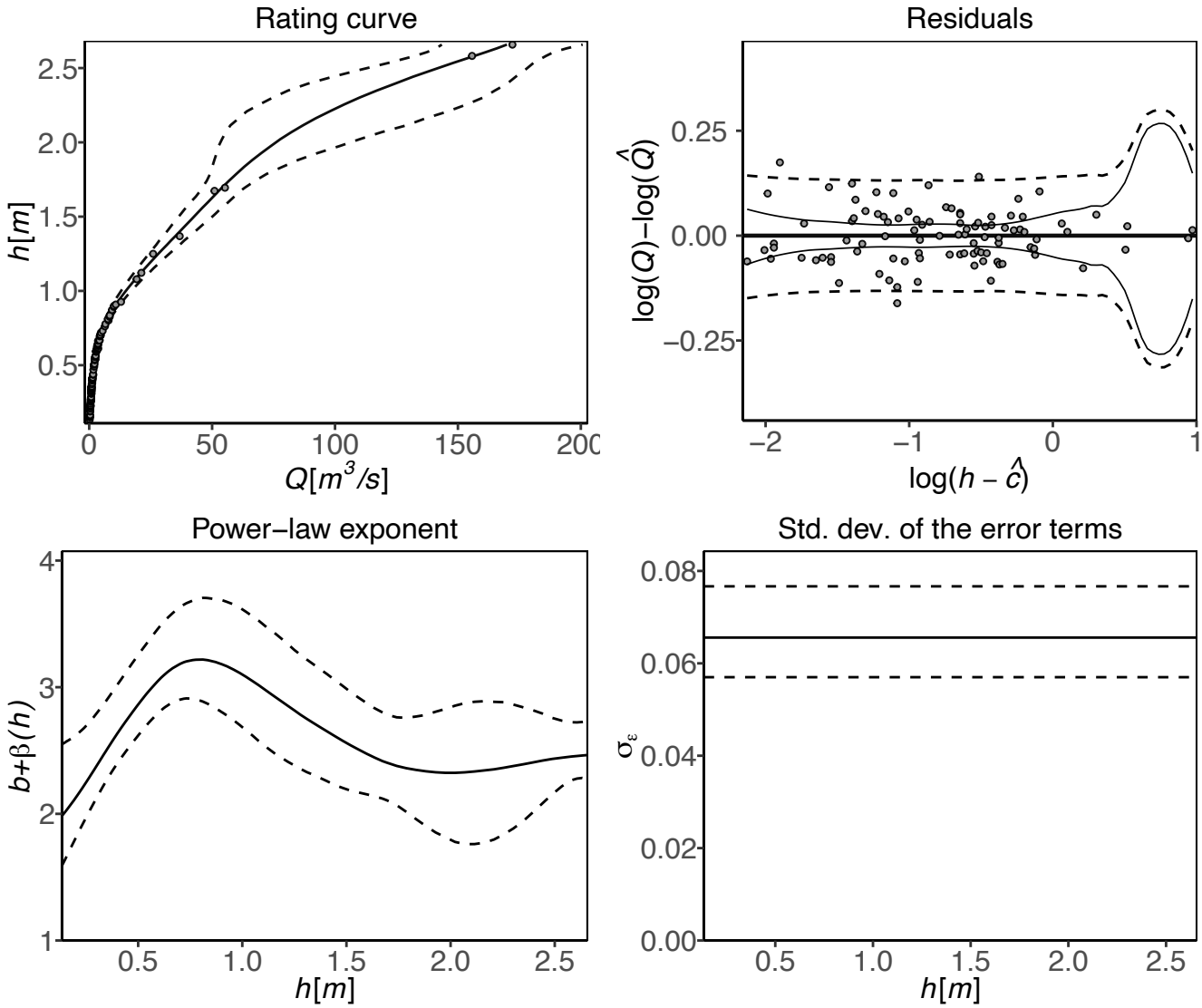


Spanish, Usa – GPLM



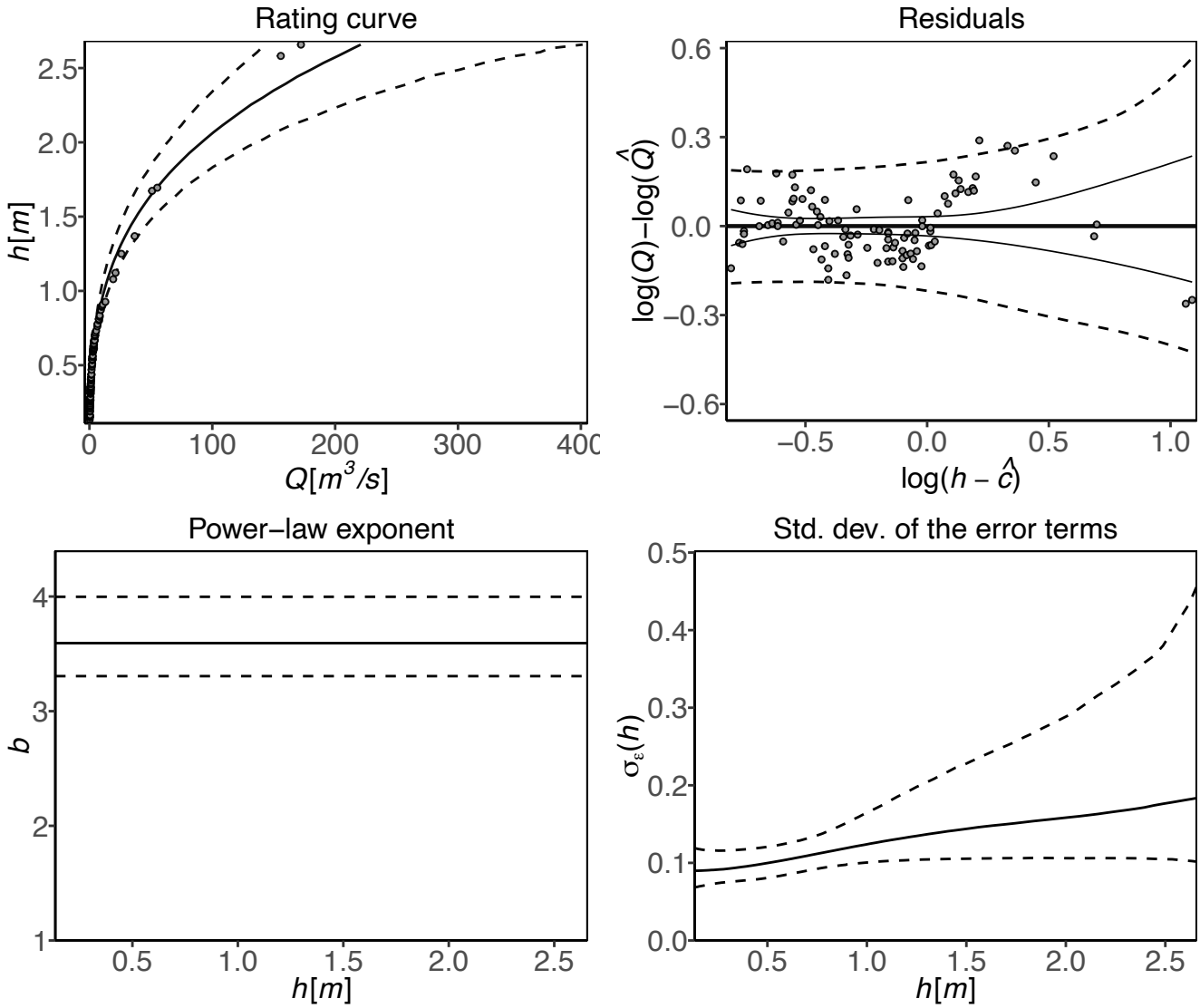
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	15.58	[11.01; 18.65]	2131	1.00
b	1.84	[1.83; 1.84]	9651	1.00
c	0.01	[–0.09; 0.07]	2027	1.00
σ_β	0.67	[0.41; 1.19]	2170	1.00
ϕ_β	0.76	[0.44; 1.25]	1943	1.00
σ_η	0.11	[0.00; 0.51]	1254	1.01
η_1	–5.39	[–5.72; –4.88]	2715	1.00
η_2	–5.84	[–7.56; –3.90]	1948	1.00
η_3	–6.22	[–8.66; –3.38]	2149	1.00
η_4	–6.30	[–9.44; –2.85]	2124	1.00
η_5	–6.38	[–10.13; –2.28]	2147	1.00
η_6	–6.38	[–10.55; –1.76]	2268	1.00

Spanish, Usa – GPLM0



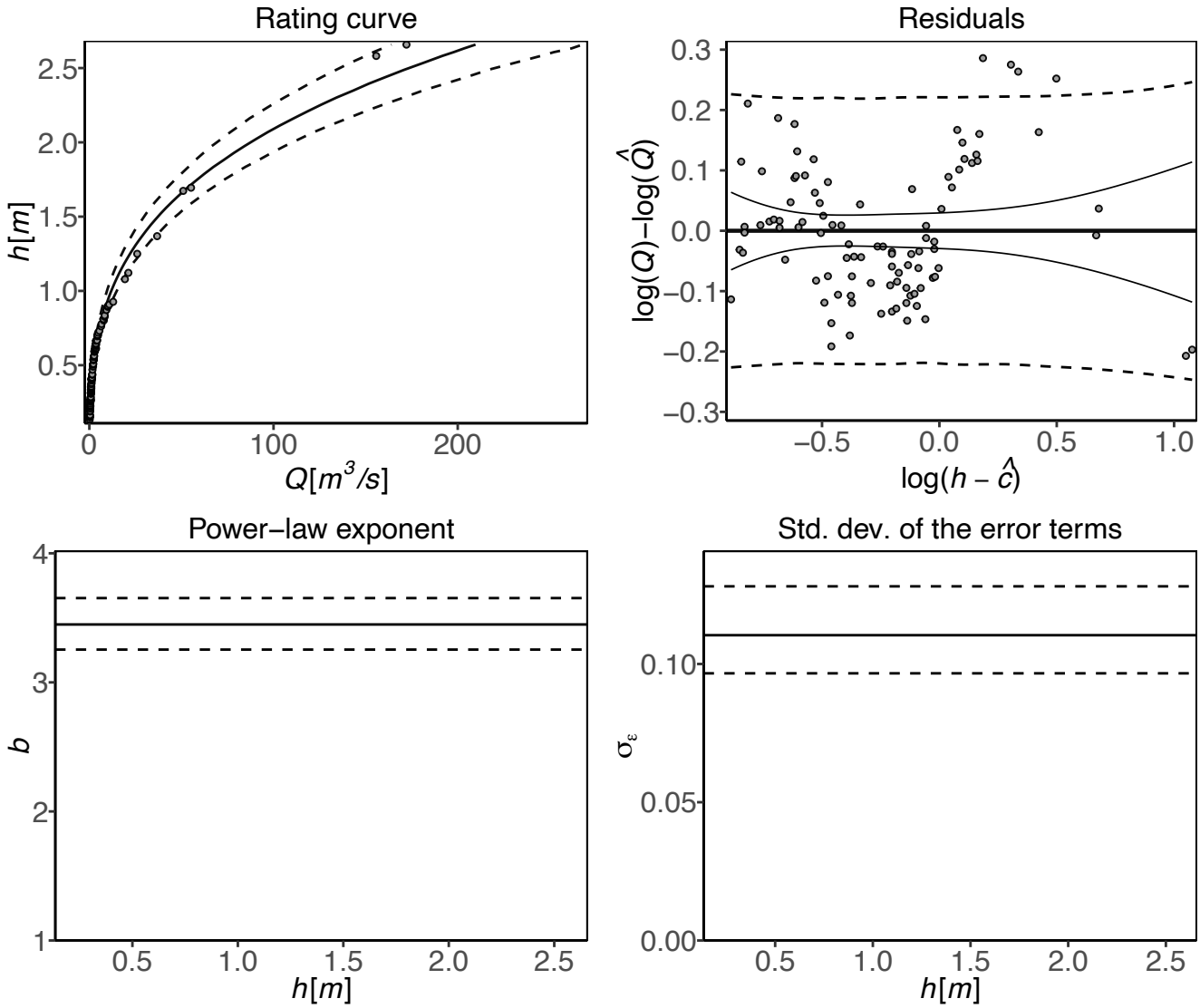
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	15.58	[11.05; 18.68]	5591	1.00
b	1.84	[1.83; 1.84]	12150	1.00
c	0.02	[–0.09; 0.07]	5006	1.00
σ_ε	0.07	[0.06; 0.08]	5041	1.00
σ_β	0.82	[0.65; 1.10]	5241	1.00
ϕ_β	0.77	[0.43; 1.25]	4582	1.00

Spanish, Usa – PLM



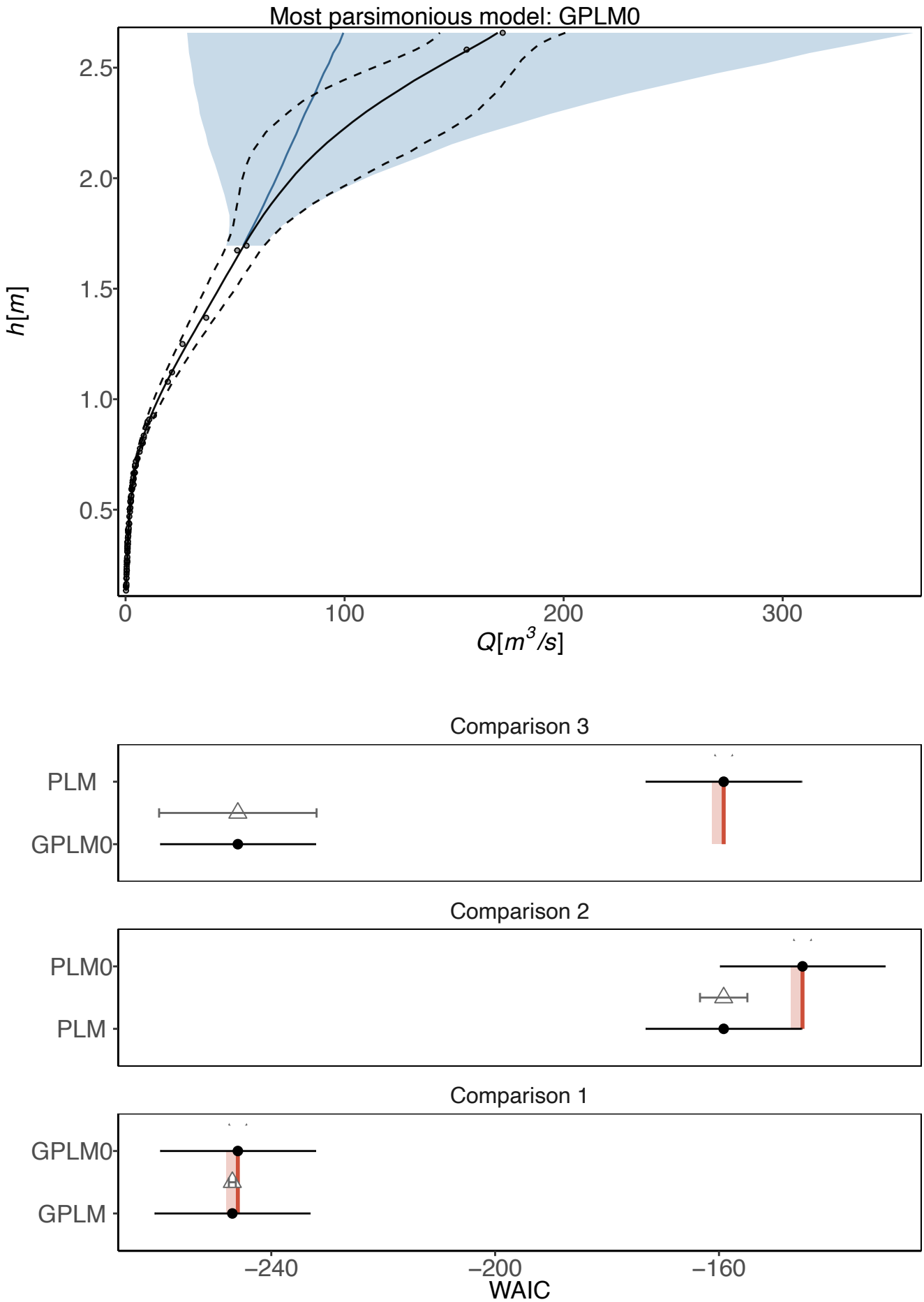
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.46	[3.22; 5.61]	2352	1.00
b	3.59	[3.31; 4.00]	2511	1.00
c	–0.31	[–0.40; –0.25]	2366	1.00
σ_η	0.43	[0.05; 0.92]	1032	1.03
η_1	–4.82	[–5.37; –4.26]	1805	1.01
η_2	–4.62	[–5.91; –2.90]	2286	1.00
η_3	–3.11	[–4.73; –1.12]	2076	1.01
η_4	–2.29	[–4.46; 0.05]	2378	1.01
η_5	–1.83	[–4.50; 0.88]	2749	1.00
η_6	–1.38	[–4.71; 1.73]	2489	1.00

Spanish, Usa – PLM0



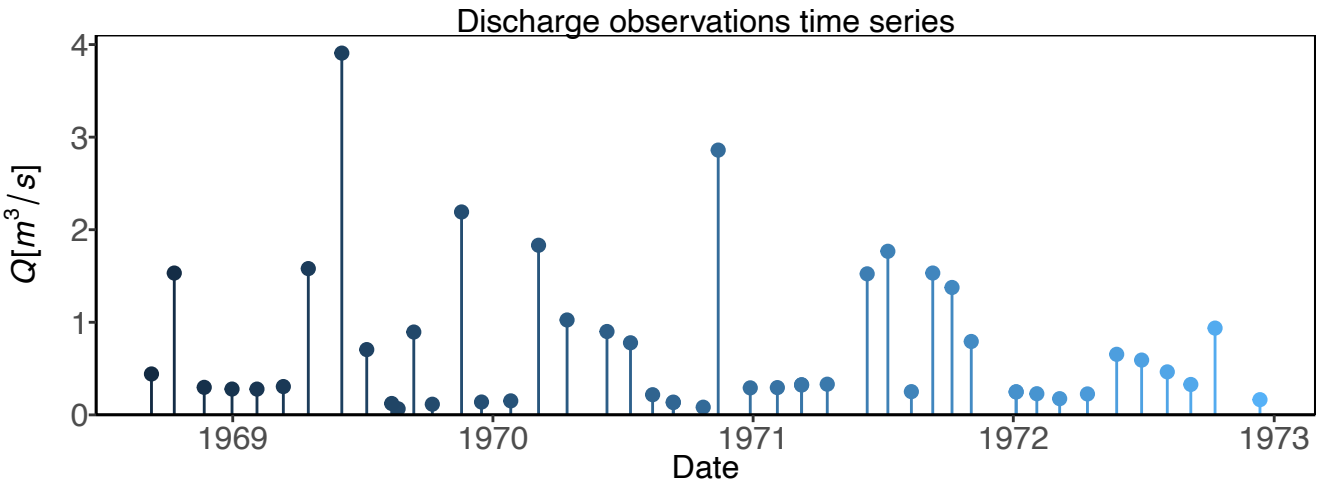
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.12	[4.25; 6.05]	9564	1.00
b	3.45	[3.25; 3.65]	9402	1.00
c	–0.28	[–0.33; –0.23]	9308	1.00
σ_ε	0.11	[0.10; 0.13]	9651	1.00

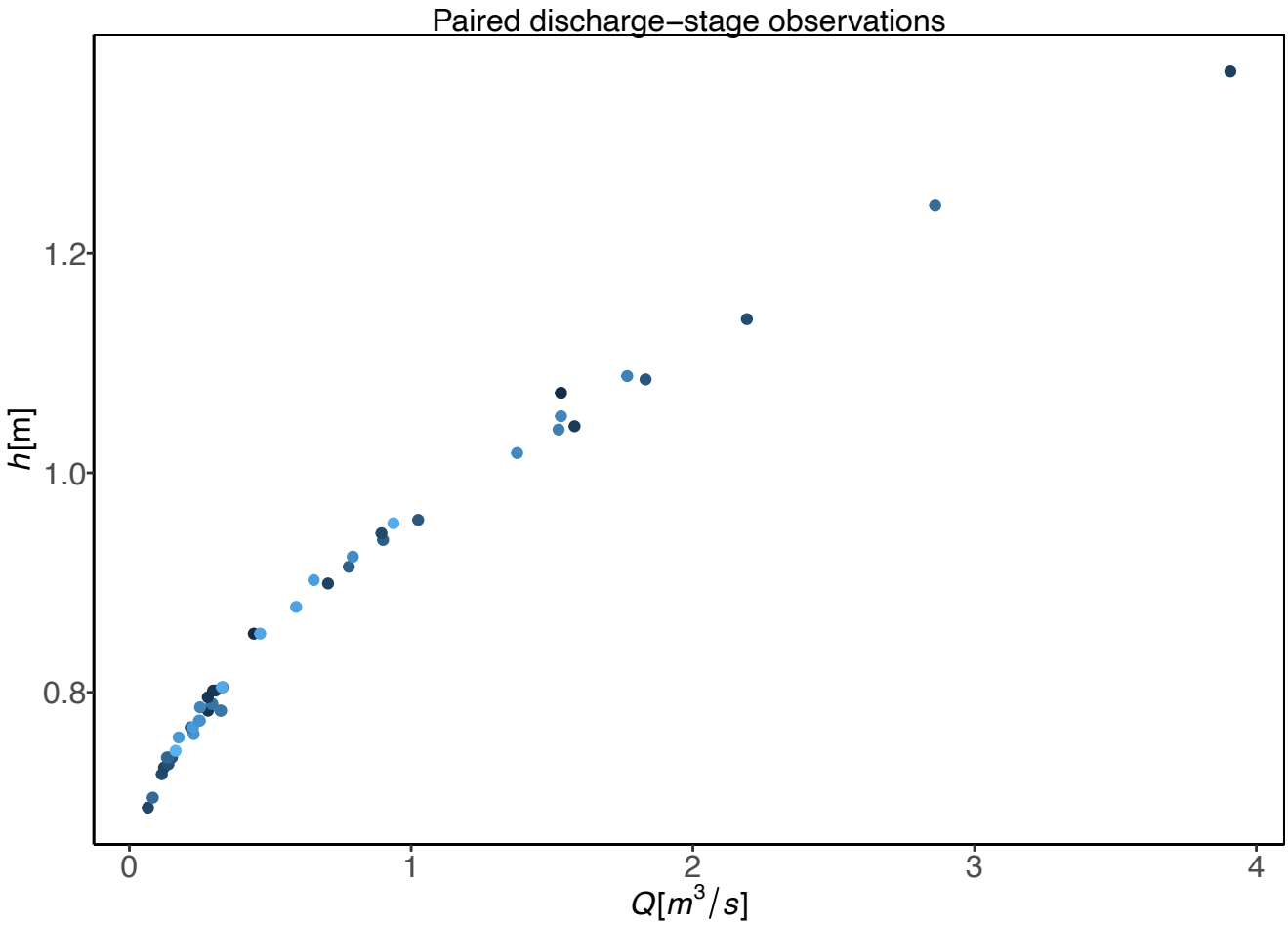
Power−law tournament results for Spanish, Usa



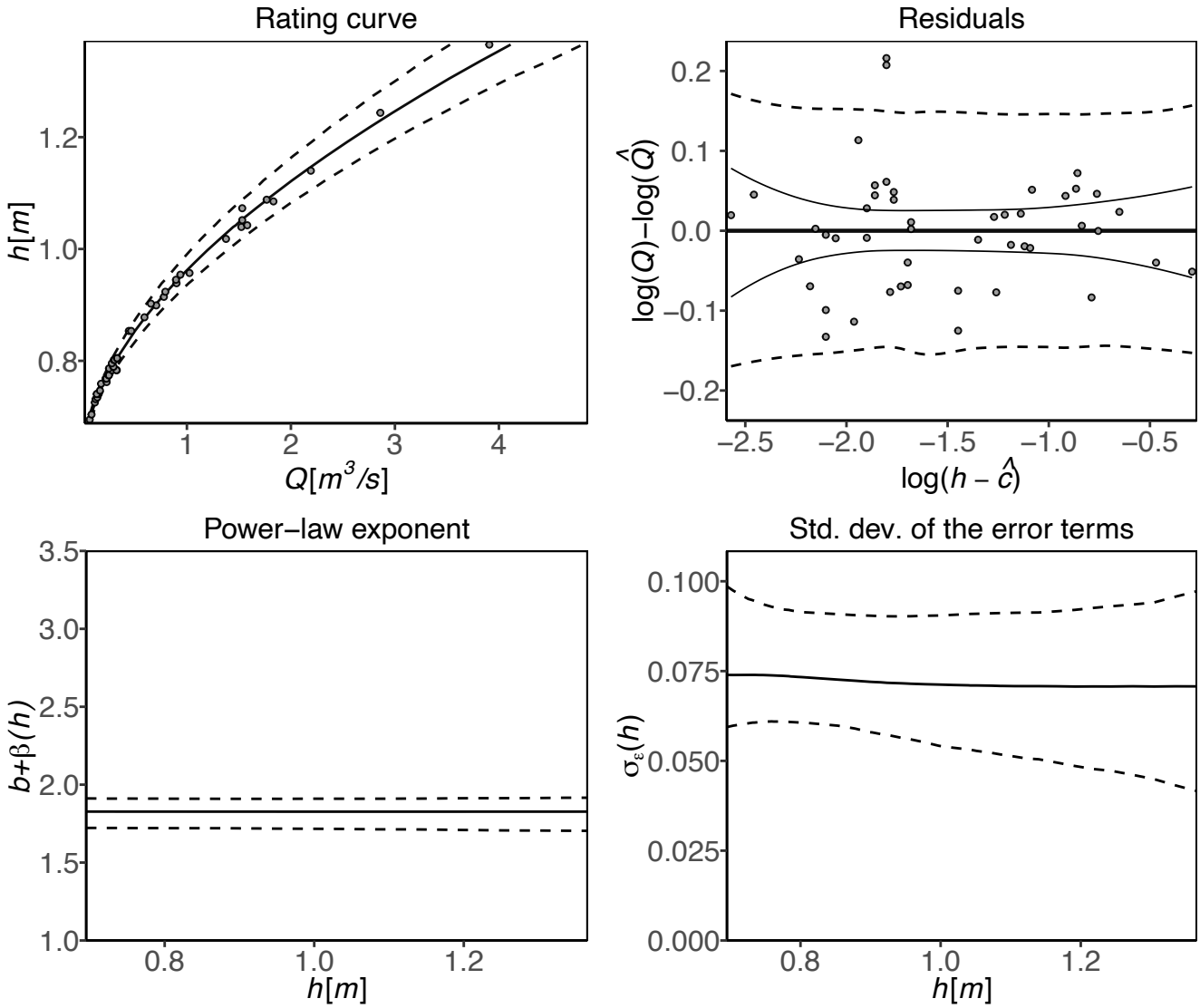
Station name:	Independence
Location:	California, USA
Station number:	10343000
Number of observations:	47
Start date:	1968–09–09
End date:	1972–12–12
Max. discharge (m^3/s):	3.9
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.00	0.37
GPLM0	0.74	0.25
PLM	0.97	0.22
PLM0	1.69	0.16



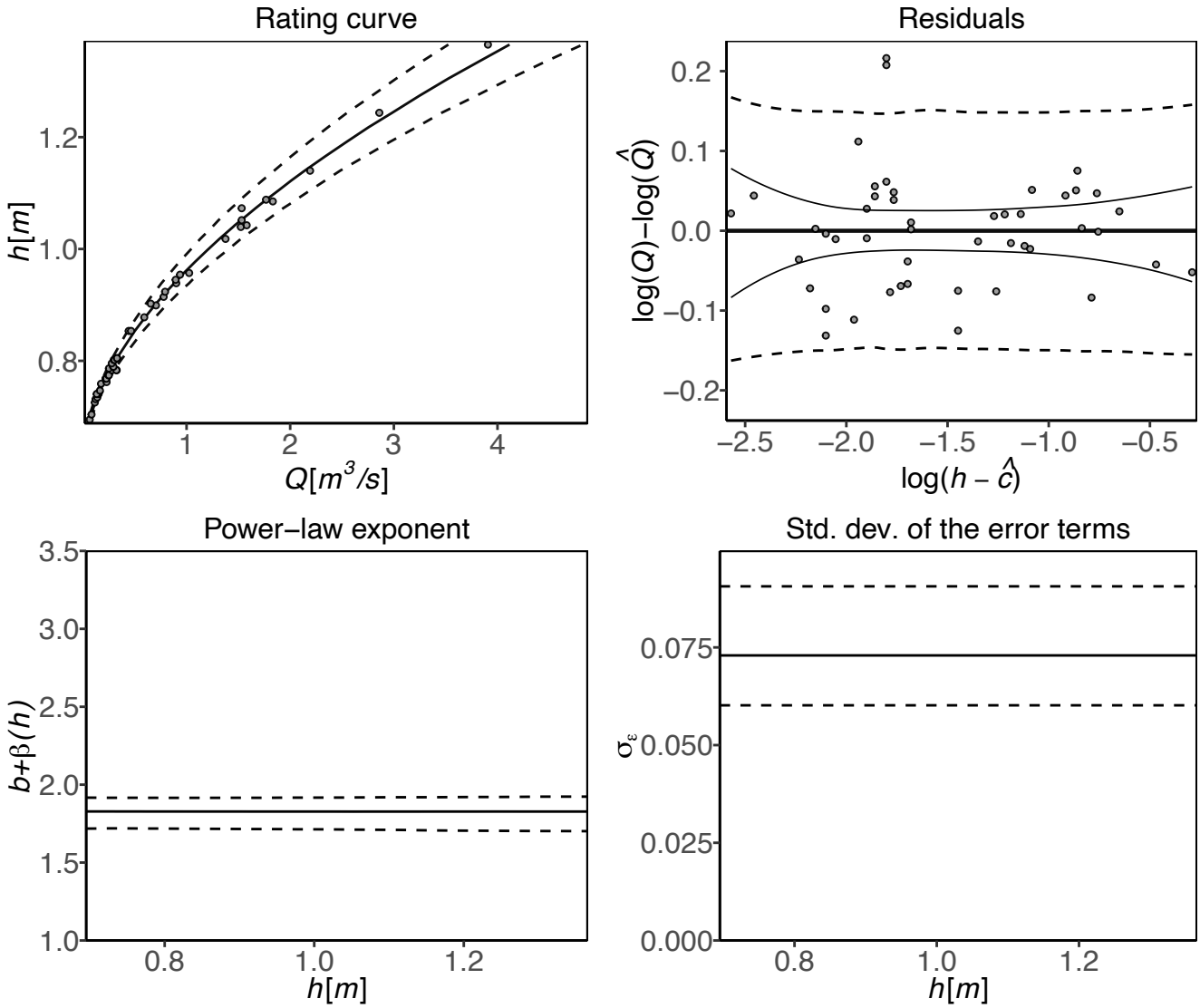


Independence, Usa – GPLM



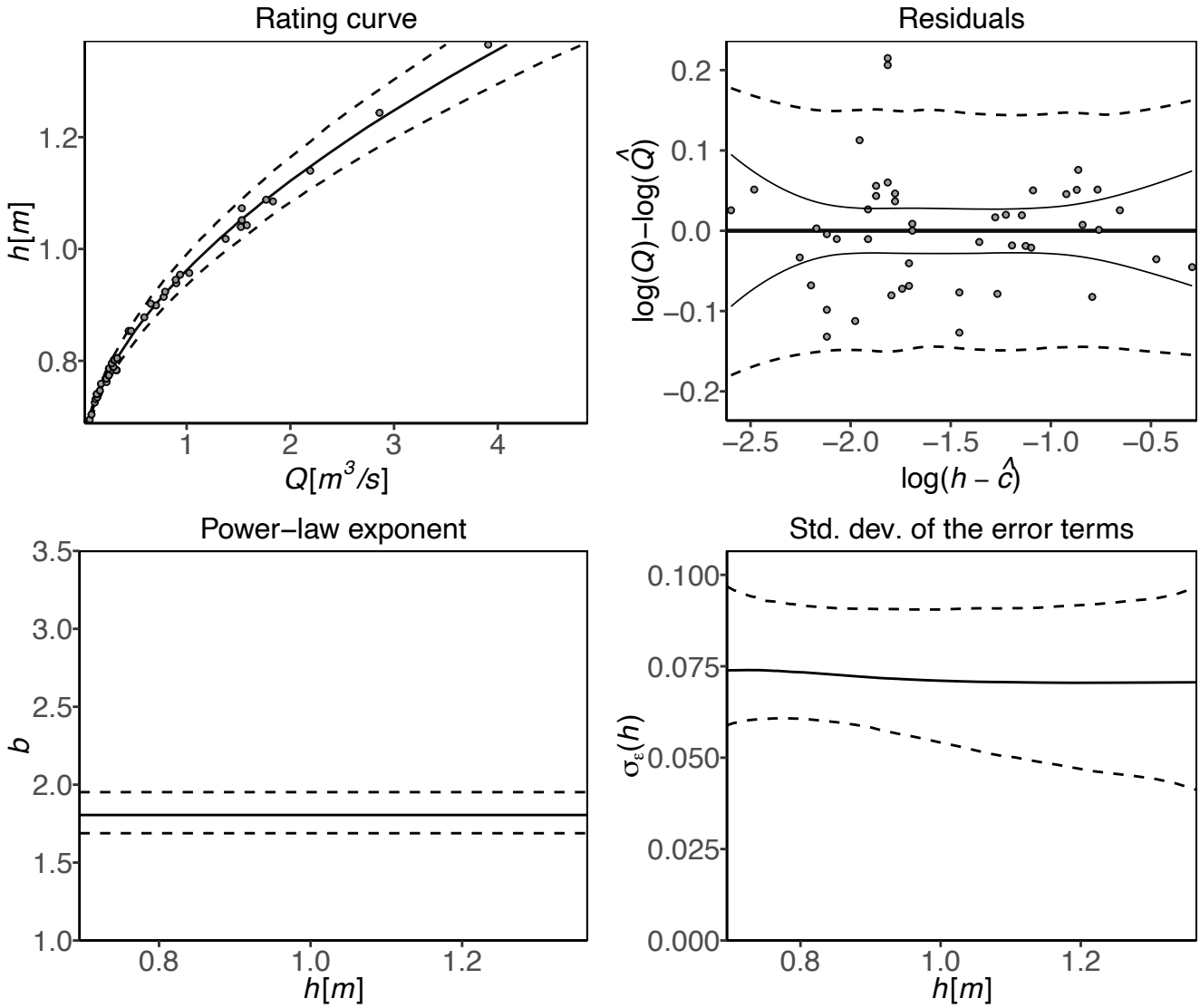
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	7.01	[6.50; 7.48]	5258	1.00
b	1.83	[1.83; 1.84]	8147	1.00
c	0.62	[0.61; 0.63]	1513	1.01
σ_β	0.06	[0.00; 0.40]	1708	1.01
ϕ_β	17.52	[0.74; 12317.17]	1364	1.01
σ_η	0.09	[0.00; 0.48]	1569	1.00
η_1	–5.21	[–5.65; –4.63]	1750	1.00
η_2	–5.21	[–6.94; –3.36]	1944	1.00
η_3	–5.57	[–7.98; –2.89]	2228	1.00
η_4	–5.83	[–8.83; –2.43]	2181	1.00
η_5	–5.89	[–9.48; –1.93]	2103	1.00
η_6	–5.91	[–10.05; –1.44]	1994	1.00

Independence, Usa – GPLM0



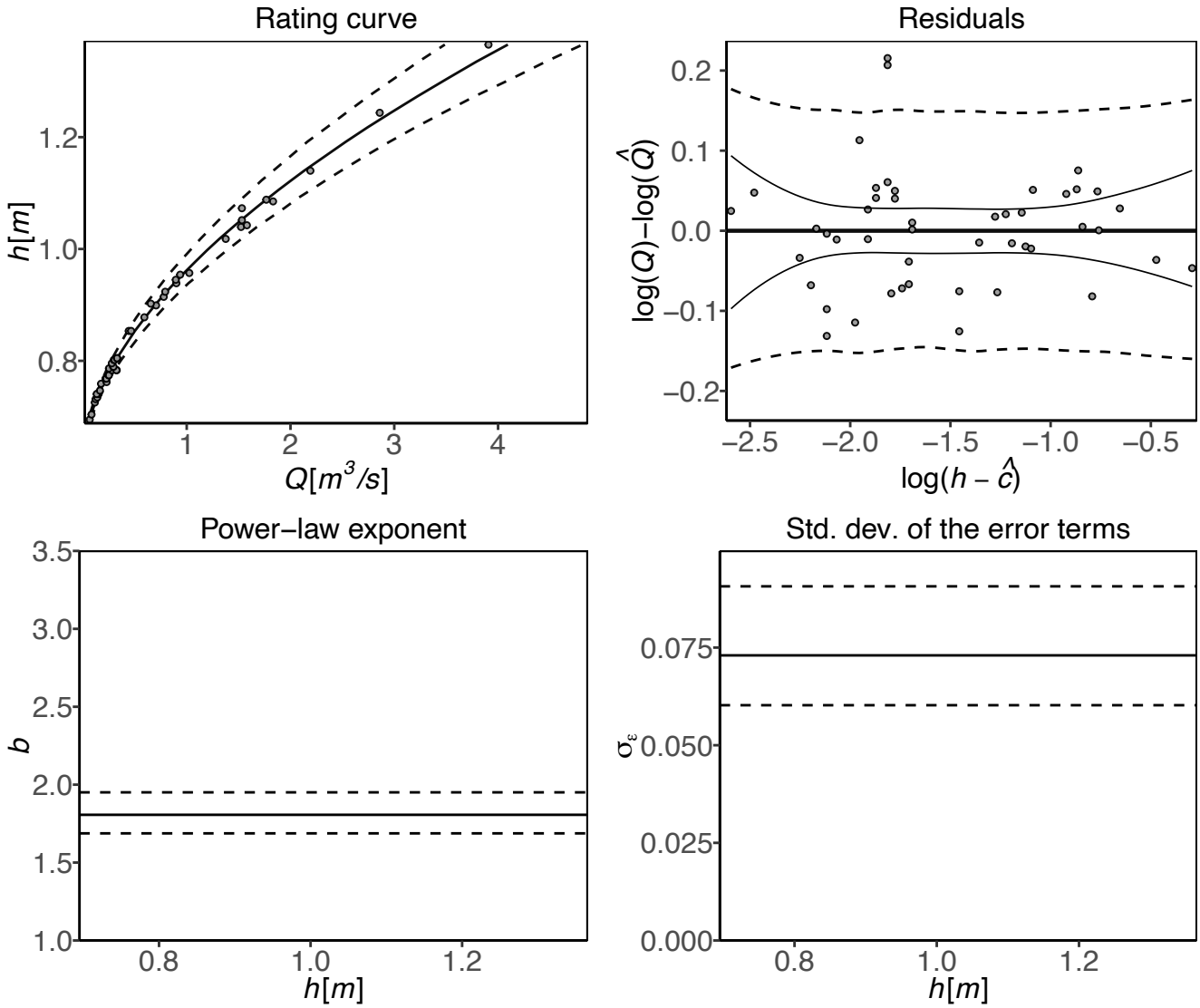
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	7.02	[6.49; 7.49]	9215	1.00
b	1.83	[1.83; 1.84]	10520	1.00
c	0.62	[0.61; 0.63]	3088	1.00
σ_ε	0.07	[0.06; 0.09]	4490	1.00
σ_β	0.25	[0.05; 0.64]	3637	1.00
ϕ_β	18.78	[0.73; 14789.66]	2754	1.00

Independence, Usa – PLM



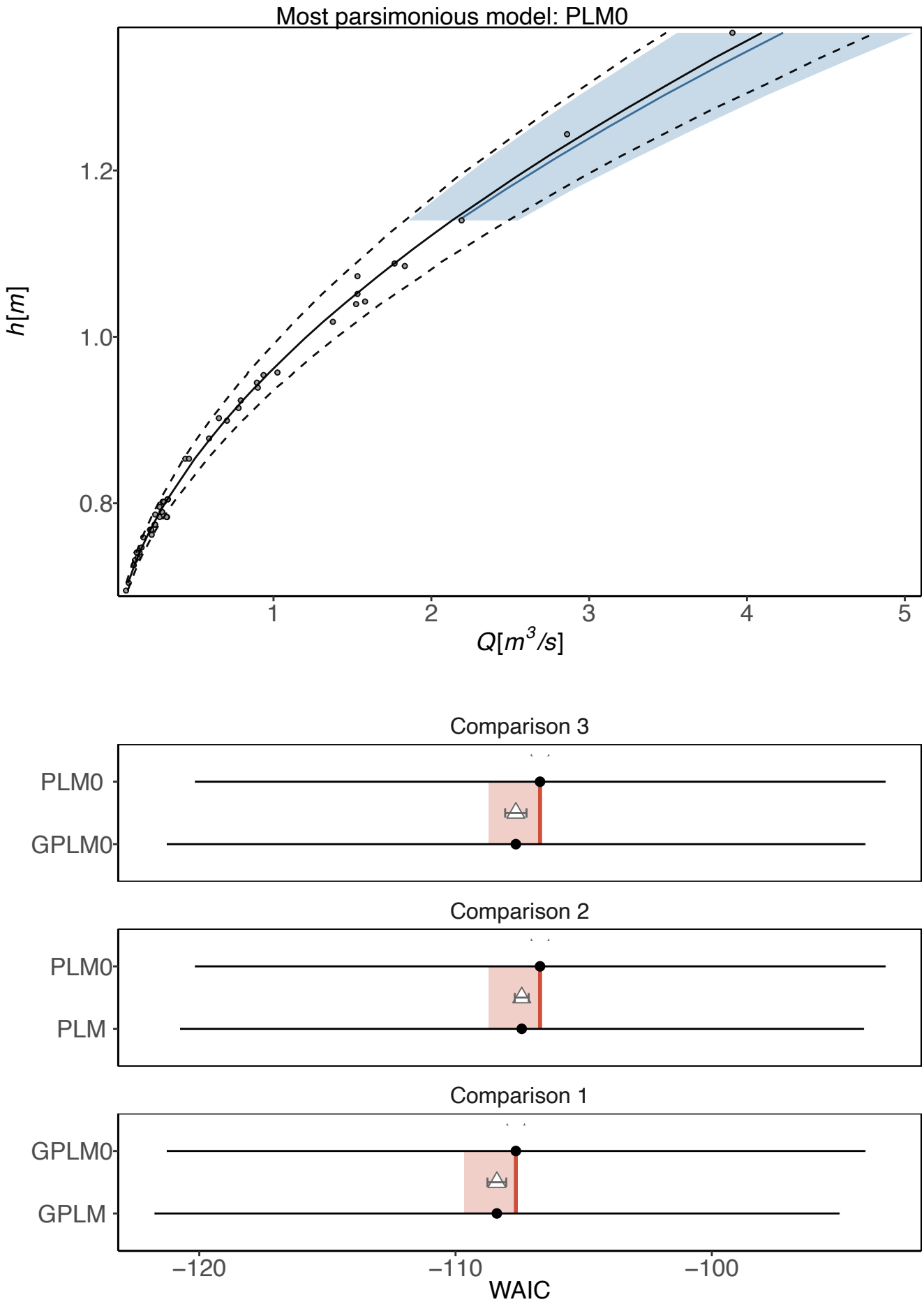
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.96	[6.44; 7.54]	4652	1.00
b	1.81	[1.69; 1.95]	2719	1.00
c	0.62	[0.60; 0.63]	2585	1.00
σ_η	0.10	[0.00; 0.51]	1857	1.00
η_1	–5.21	[–5.67; –4.67]	2206	1.00
η_2	–5.17	[–7.09; –3.38]	2388	1.00
η_3	–5.53	[–8.18; –2.87]	2924	1.00
η_4	–5.81	[–8.93; –2.48]	2720	1.00
η_5	–5.81	[–9.57; –1.99]	2608	1.00
η_6	–5.85	[–9.99; –1.58]	2764	1.00

Independence, Usa – PLM0



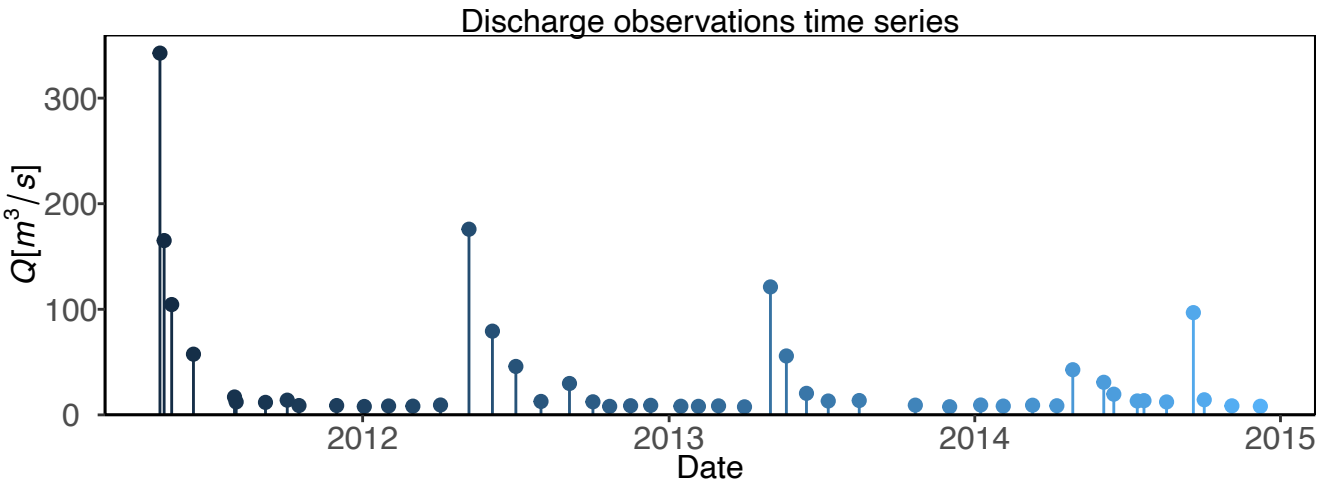
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.96	[6.43; 7.56]	12278	1.00
b	1.81	[1.69; 1.95]	9700	1.00
c	0.62	[0.60; 0.63]	9499	1.00
σ_ε	0.07	[0.06; 0.09]	9444	1.00

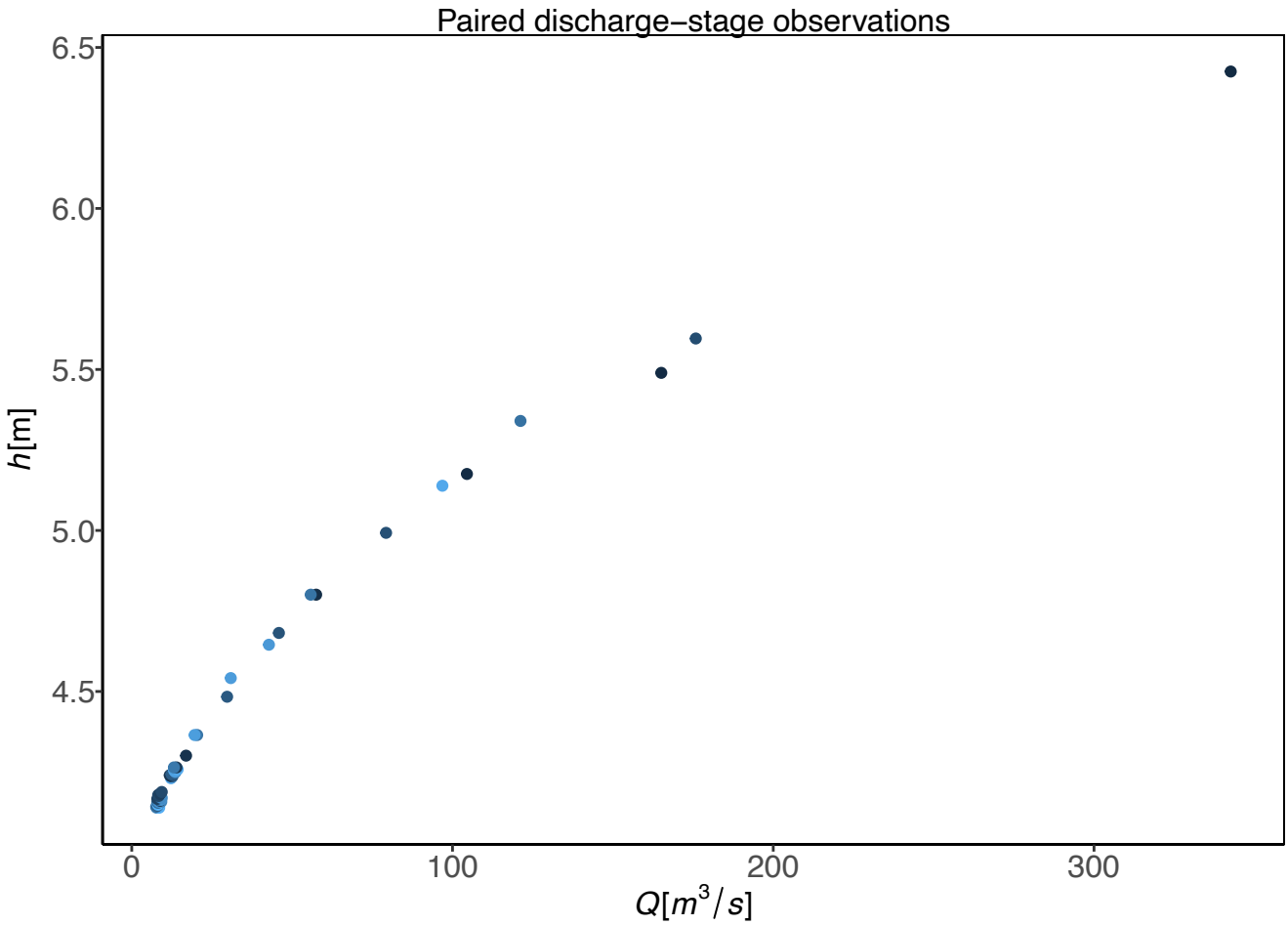
Power−law tournament results for Independence, Usa



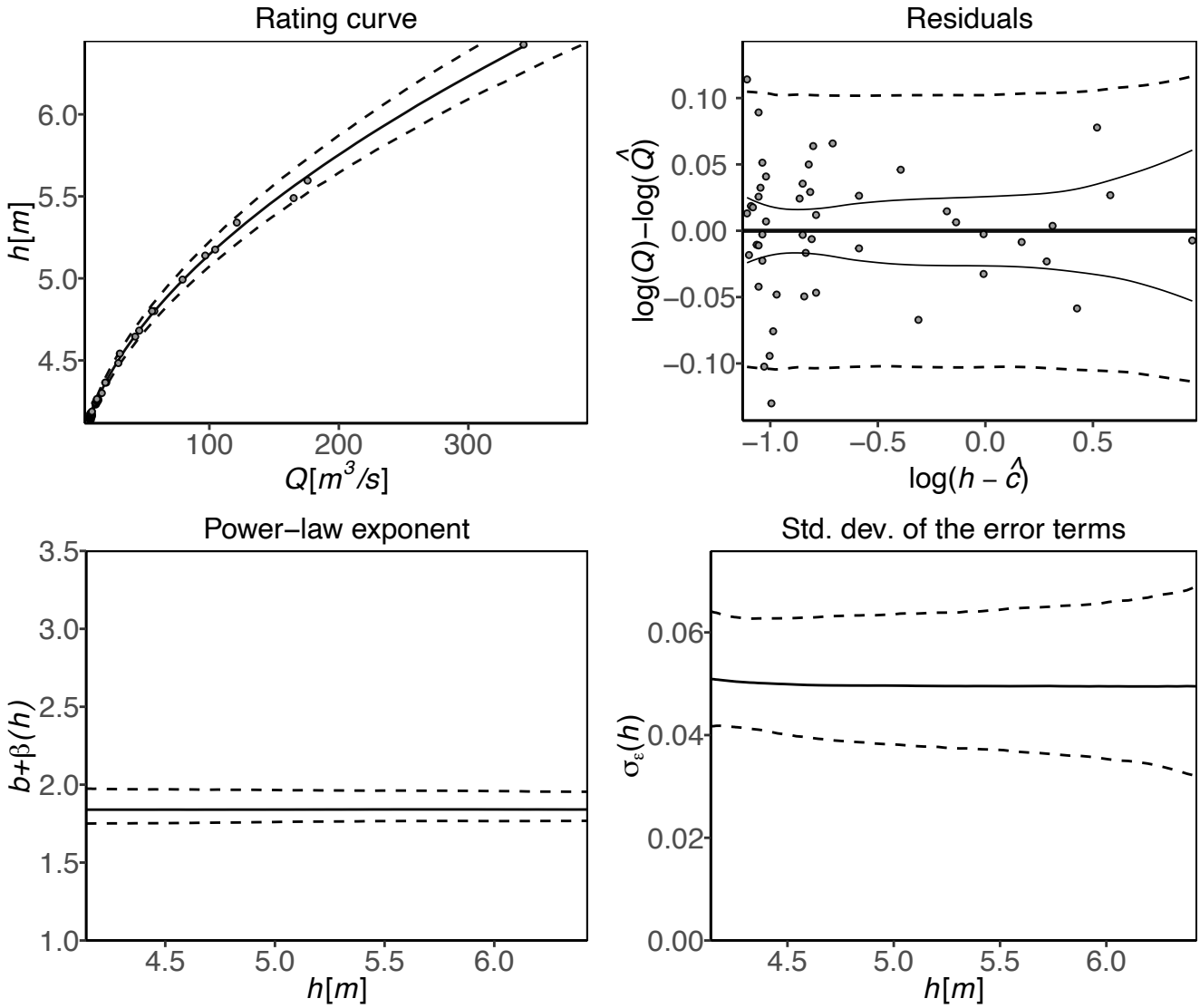
Station name:	Trinity
Location:	California, USA
Station number:	11525500
Number of observations:	48
Start date:	2011–05–04
End date:	2014–12–08
Max. discharge (m^3/s):	342.6
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.00	0.31
GPLM0	0.28	0.27
PLM	0.66	0.22
PLM0	0.78	0.21



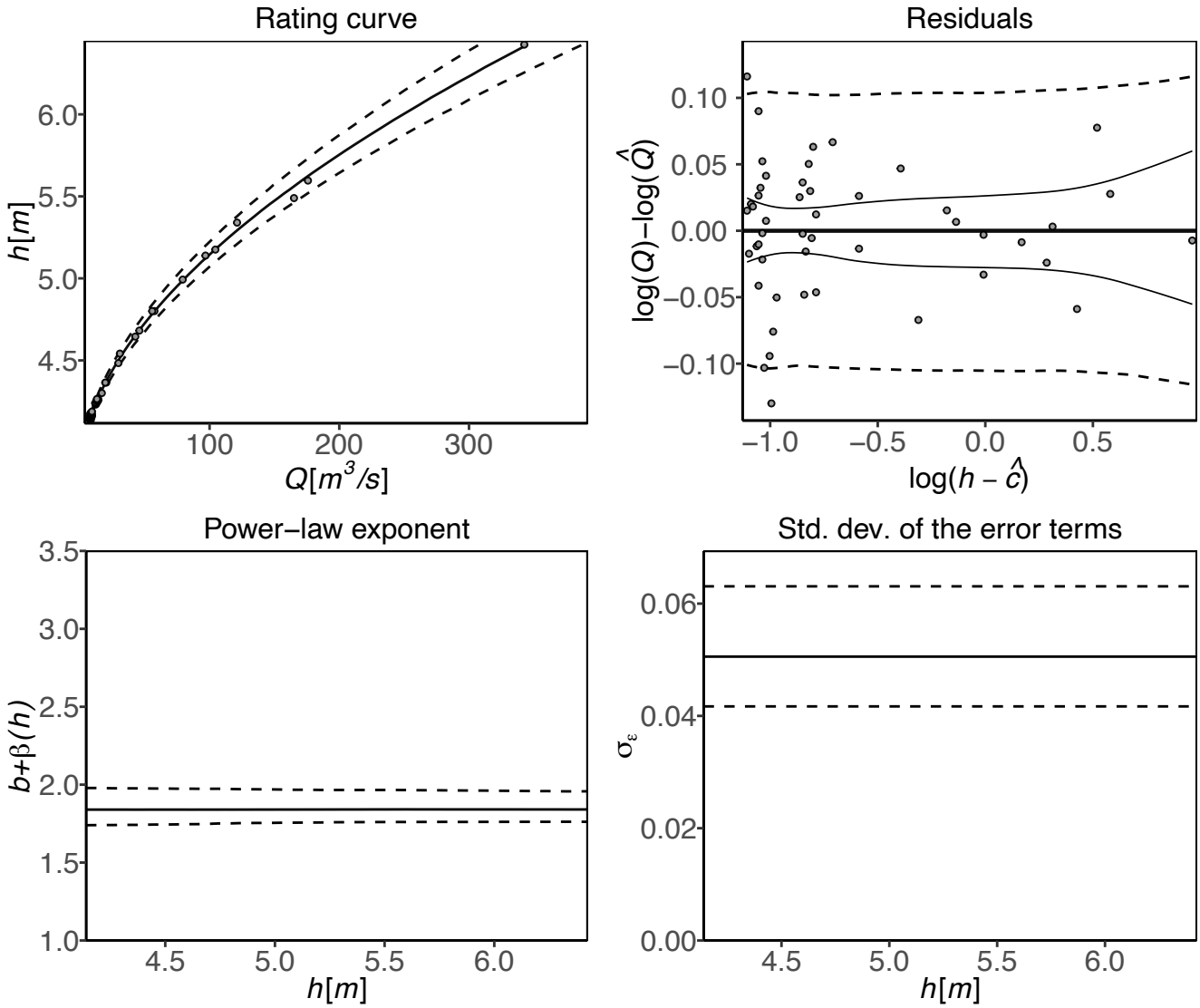


Trinity, Usa – GPLM



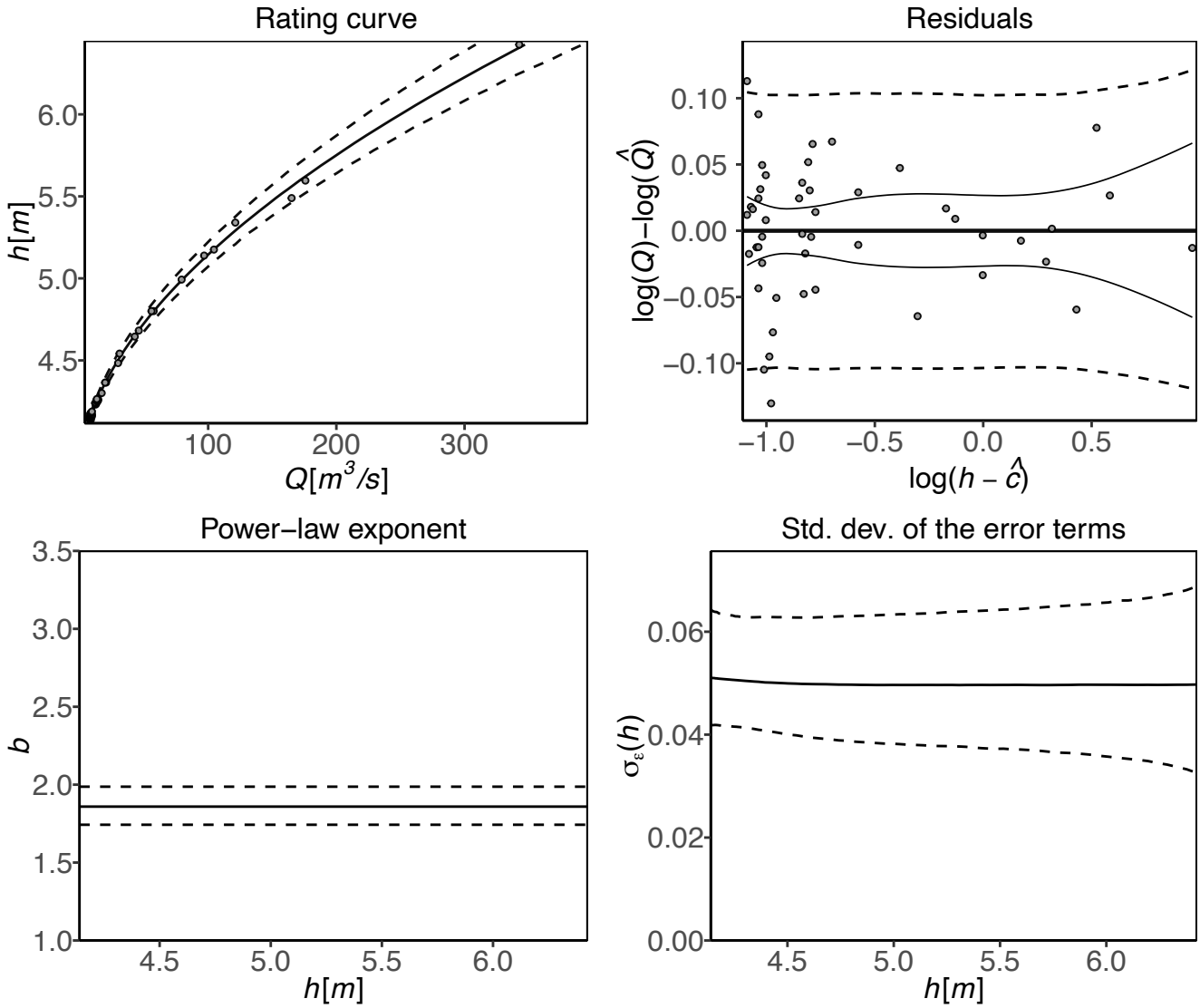
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	58.57	[52.79; 62.79]	1275	1.01
b	1.84	[1.83; 1.84]	8007	1.00
c	3.81	[3.76; 3.84]	1157	1.01
σ_β	0.06	[0.00; 0.37]	2074	1.00
ϕ_β	20.32	[0.77; 16056.44]	1474	1.00
σ_η	0.09	[0.00; 0.42]	1401	1.01
η_1	–5.95	[–6.35; –5.49]	1976	1.00
η_2	–6.20	[–8.11; –4.26]	2156	1.00
η_3	–6.34	[–8.91; –3.55]	2281	1.00
η_4	–6.35	[–9.46; –2.92]	1996	1.00
η_5	–6.36	[–9.98; –2.39]	2038	1.01
η_6	–6.37	[–10.54; –1.99]	2107	1.00

Trinity, Usa – GPLM0



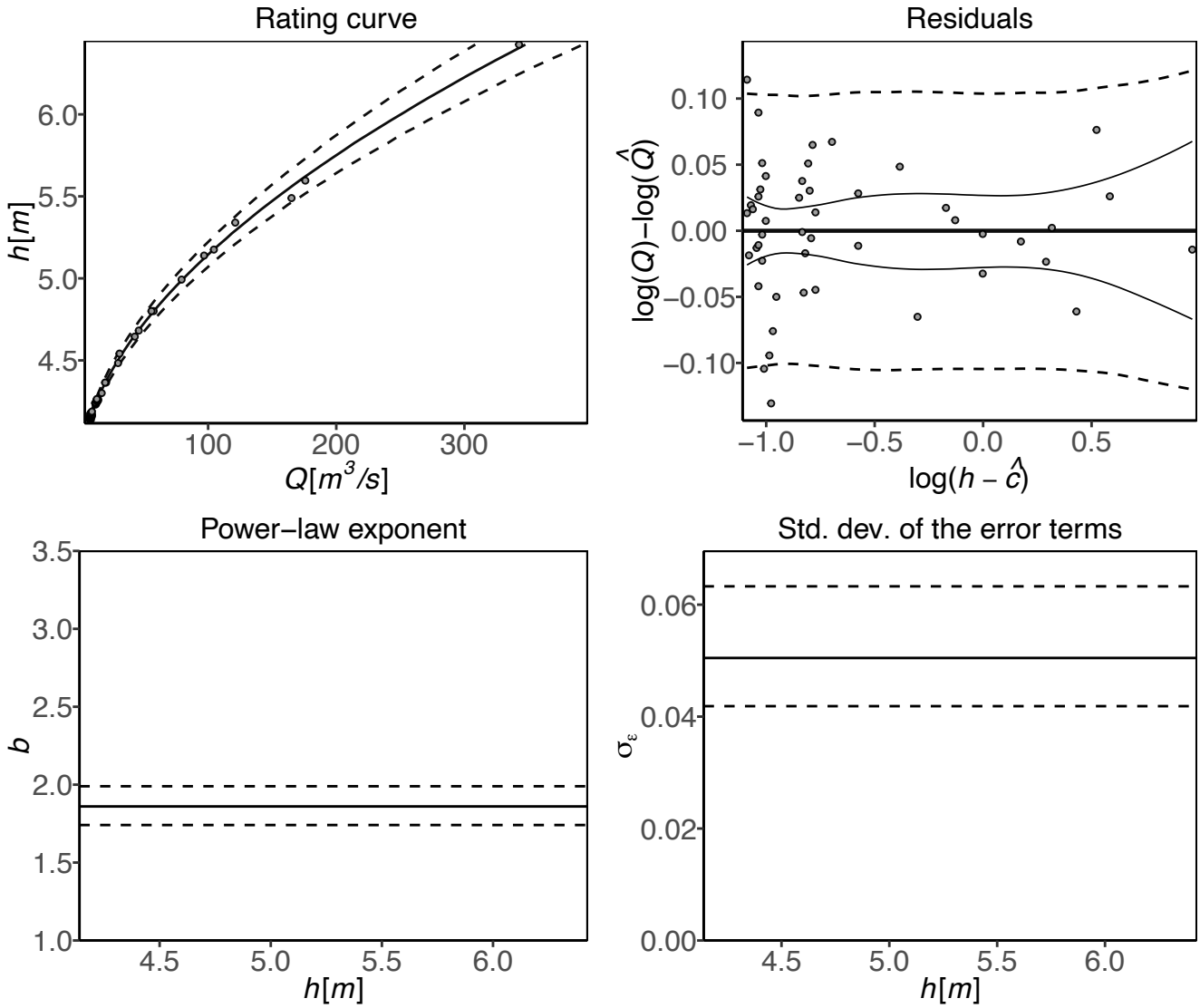
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	58.53	[52.75; 62.87]	1751	1.00
b	1.84	[1.83; 1.84]	11169	1.00
c	3.81	[3.76; 3.84]	1583	1.01
σ_ε	0.05	[0.04; 0.06]	4403	1.00
σ_β	0.24	[0.05; 0.61]	4095	1.00
ϕ_β	20.02	[0.76; 13934.69]	2814	1.00

Trinity, Usa – PLM



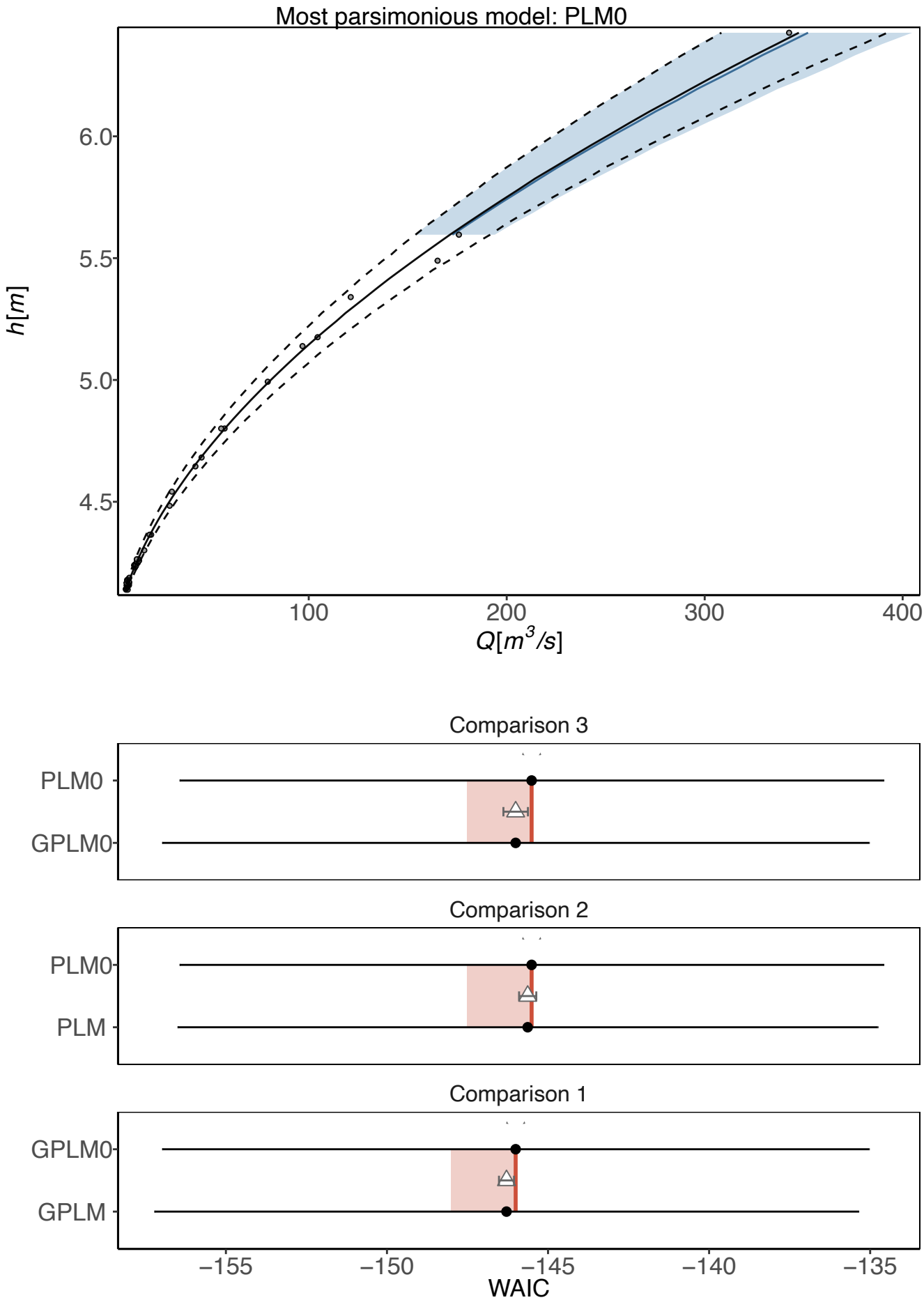
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	57.85	[51.92; 63.45]	2889	1.00
b	1.86	[1.74; 1.99]	2908	1.00
c	3.80	[3.76; 3.84]	2774	1.00
σ_η	0.08	[0.00; 0.44]	1900	1.00
η_1	–5.95	[–6.35; –5.49]	2699	1.00
η_2	–6.21	[–8.12; –4.29]	2907	1.00
η_3	–6.33	[–8.94; –3.64]	2936	1.00
η_4	–6.31	[–9.50; –3.08]	2760	1.00
η_5	–6.34	[–10.14; –2.56]	2883	1.00
η_6	–6.39	[–10.57; –2.16]	2739	1.00

Trinity, Usa – PLM0



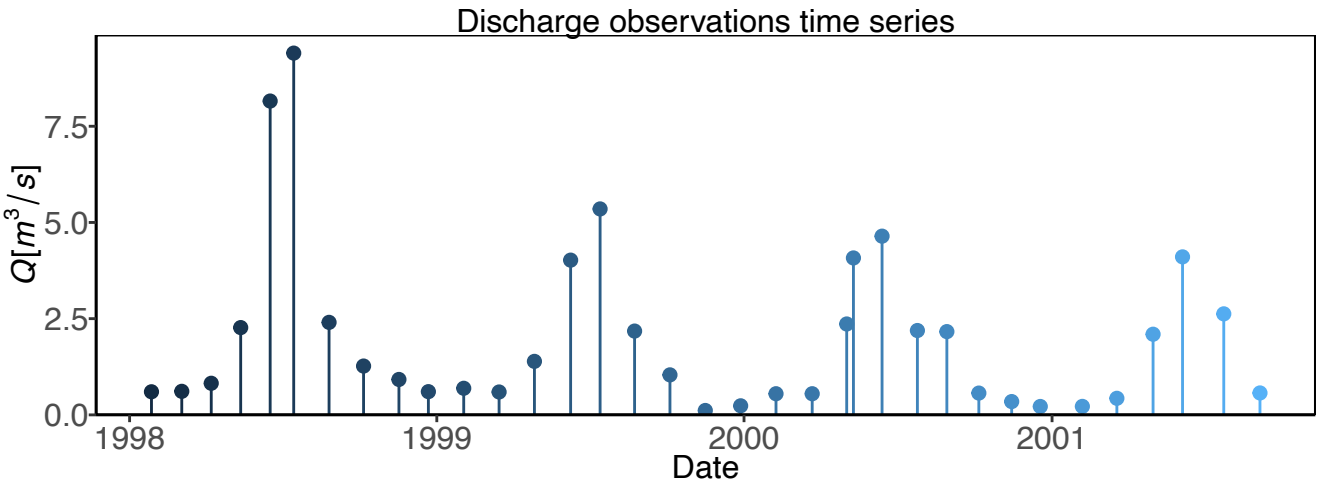
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	57.83	[51.69; 63.50]	9752	1.00
b	1.86	[1.74; 1.99]	9840	1.00
c	3.80	[3.75; 3.84]	9537	1.00
σ_ε	0.05	[0.04; 0.06]	8948	1.00

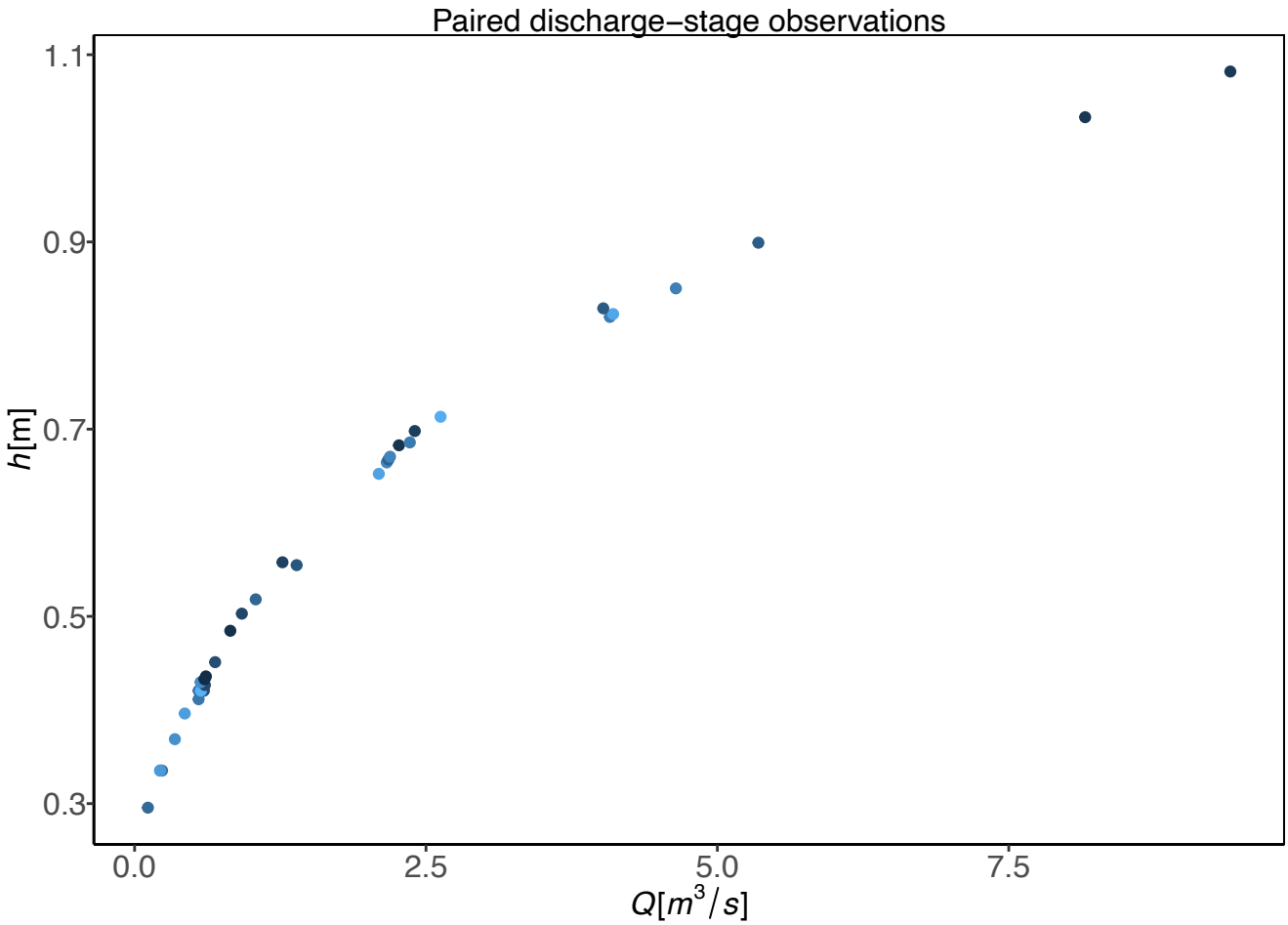
Power−law tournament results for Trinity, Usa



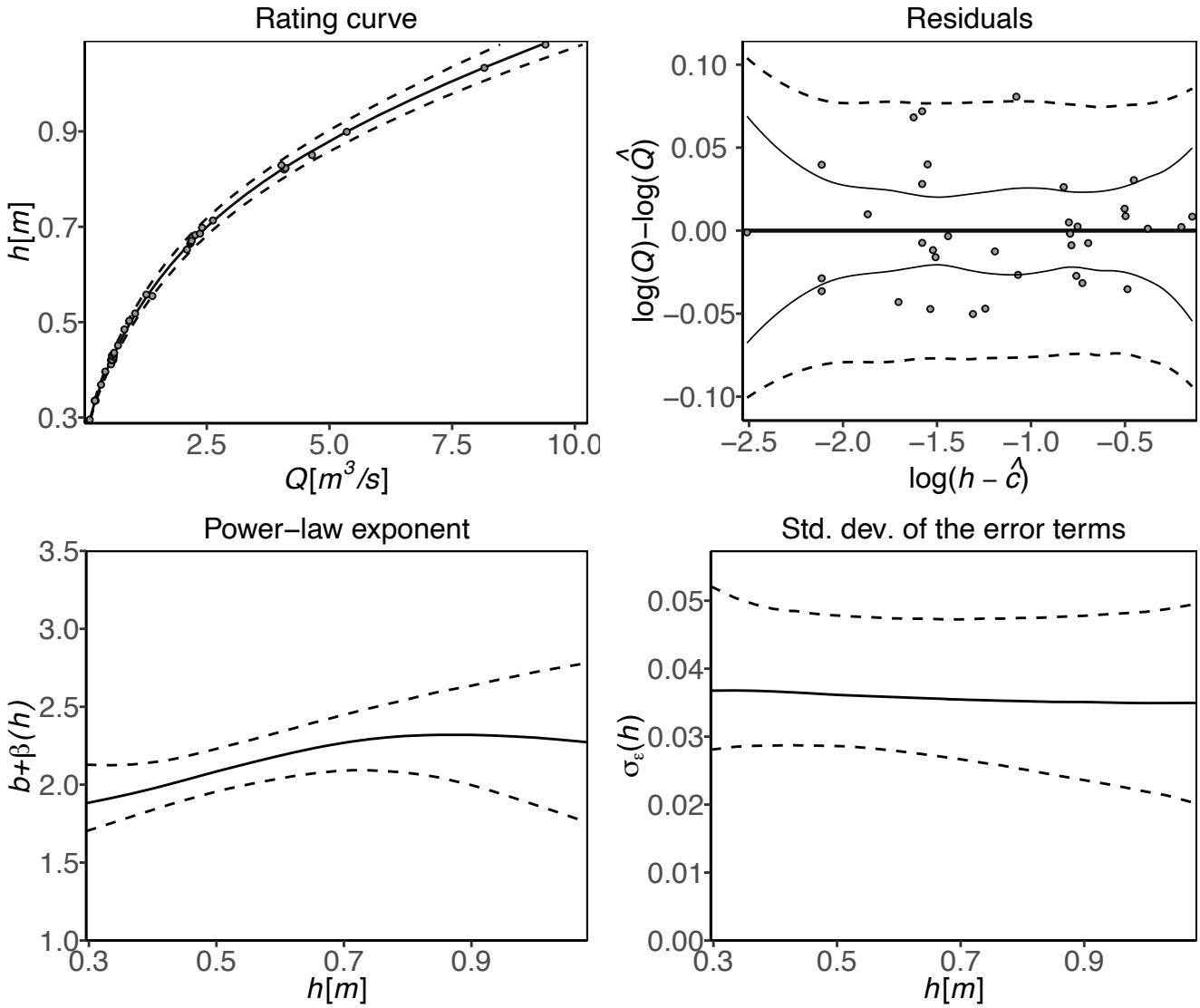
Station name:	Robinson
Location:	California, USA
Station number:	10290500
Number of observations:	35
Start date:	1998–01–27
End date:	2001–09–05
Max. discharge (m^3/s):	9.4
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.57
GPLM0	0.60	0.43
PLM	36.25	0.00
PLM0	36.69	0.00



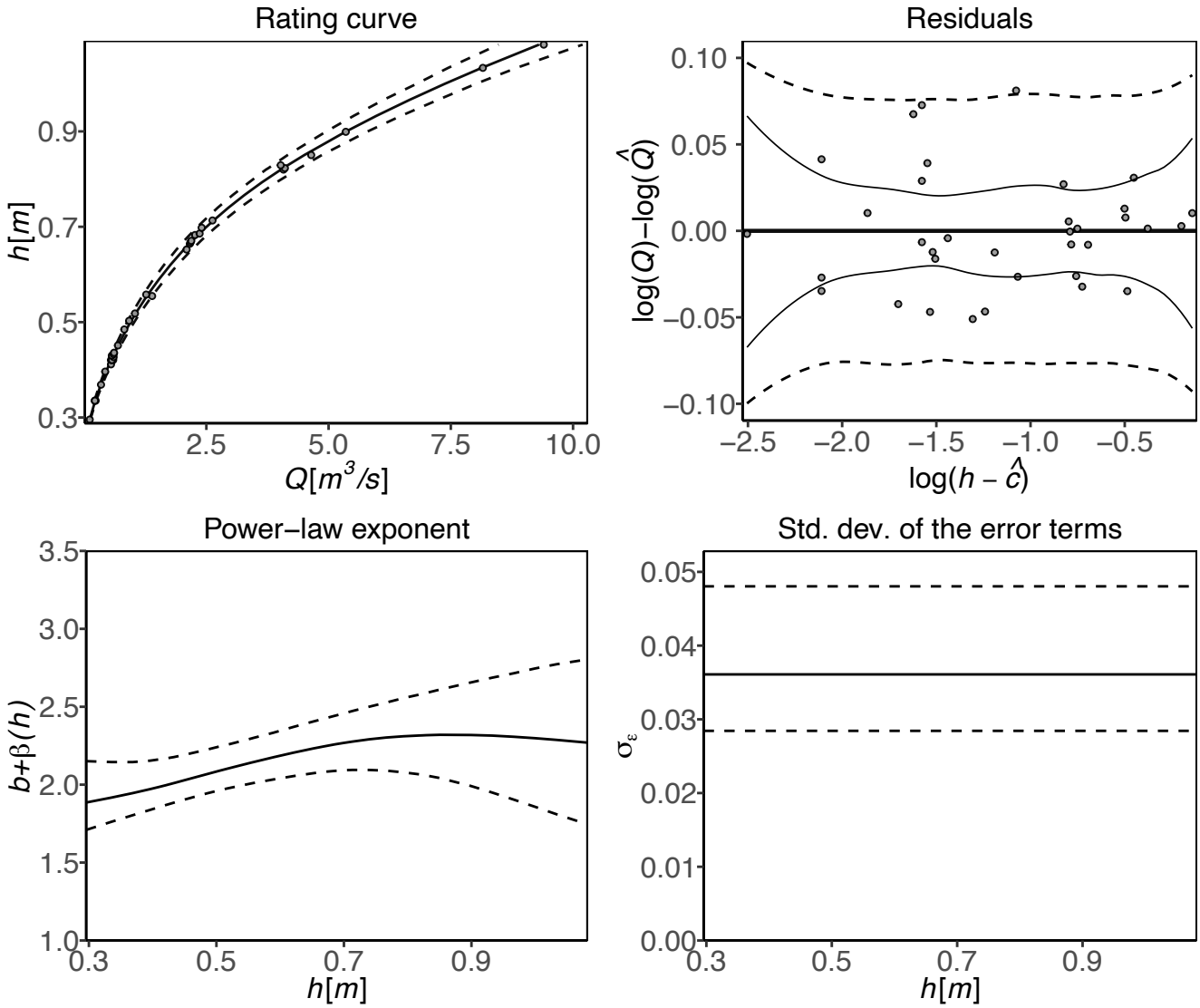


Robinson, Usa – GPLM



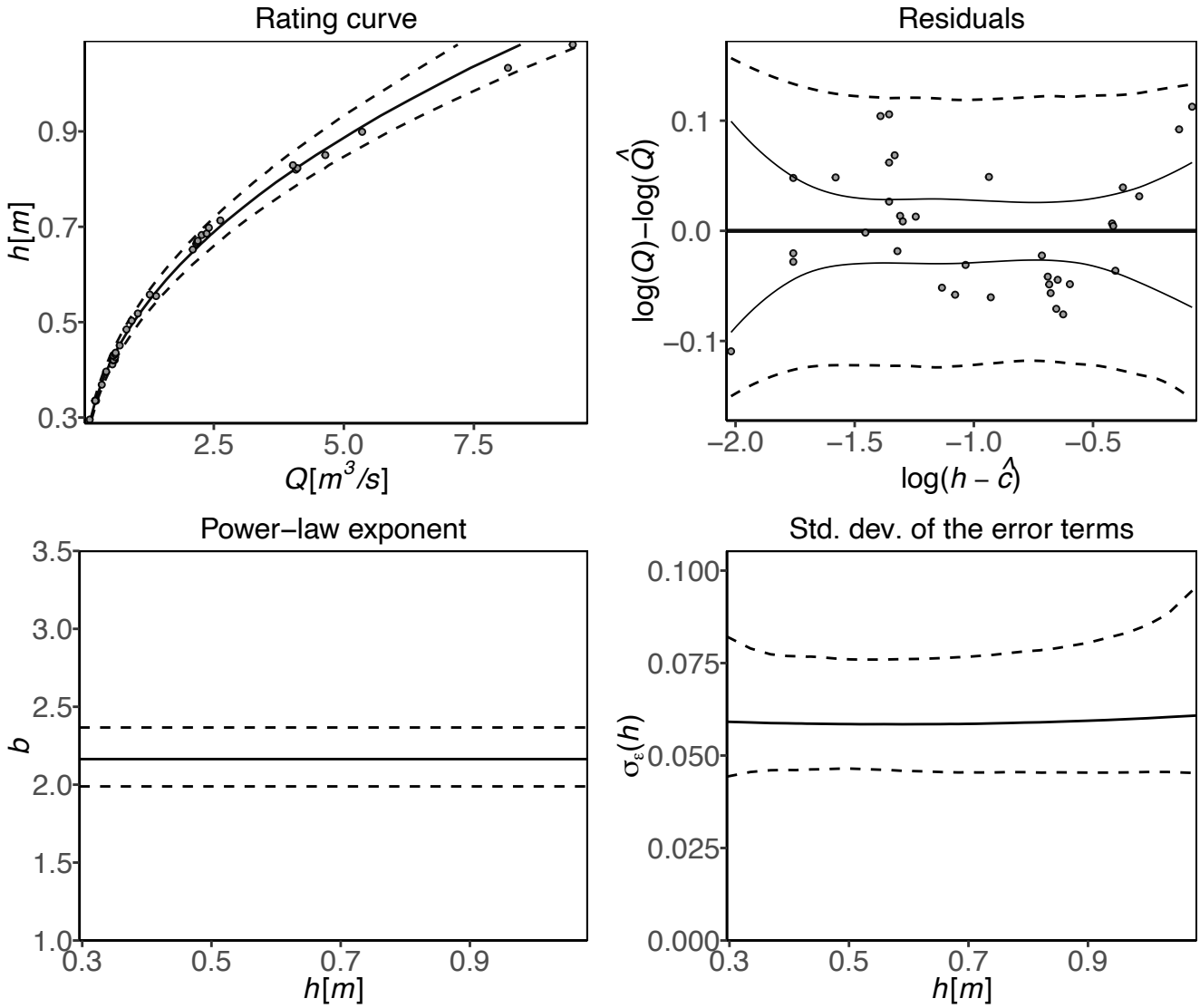
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.81	[11.24; 14.53]	3843	1.00
b	1.84	[1.83; 1.84]	10304	1.00
c	0.21	[0.18; 0.24]	1975	1.00
σ_β	0.38	[0.16; 0.94]	2448	1.00
ϕ_β	0.74	[0.31; 1.73]	1987	1.00
σ_η	0.09	[0.00; 0.48]	1607	1.00
η_1	–6.61	[–7.15; –5.91]	2078	1.00
η_2	–6.63	[–8.46; –4.83]	2267	1.00
η_3	–6.87	[–9.36; –4.23]	2363	1.00
η_4	–7.16	[–10.28; –3.83]	2324	1.00
η_5	–7.24	[–10.91; –3.40]	2328	1.00
η_6	–7.29	[–11.48; –2.95]	2347	1.00

Robinson, Usa – GPLM0



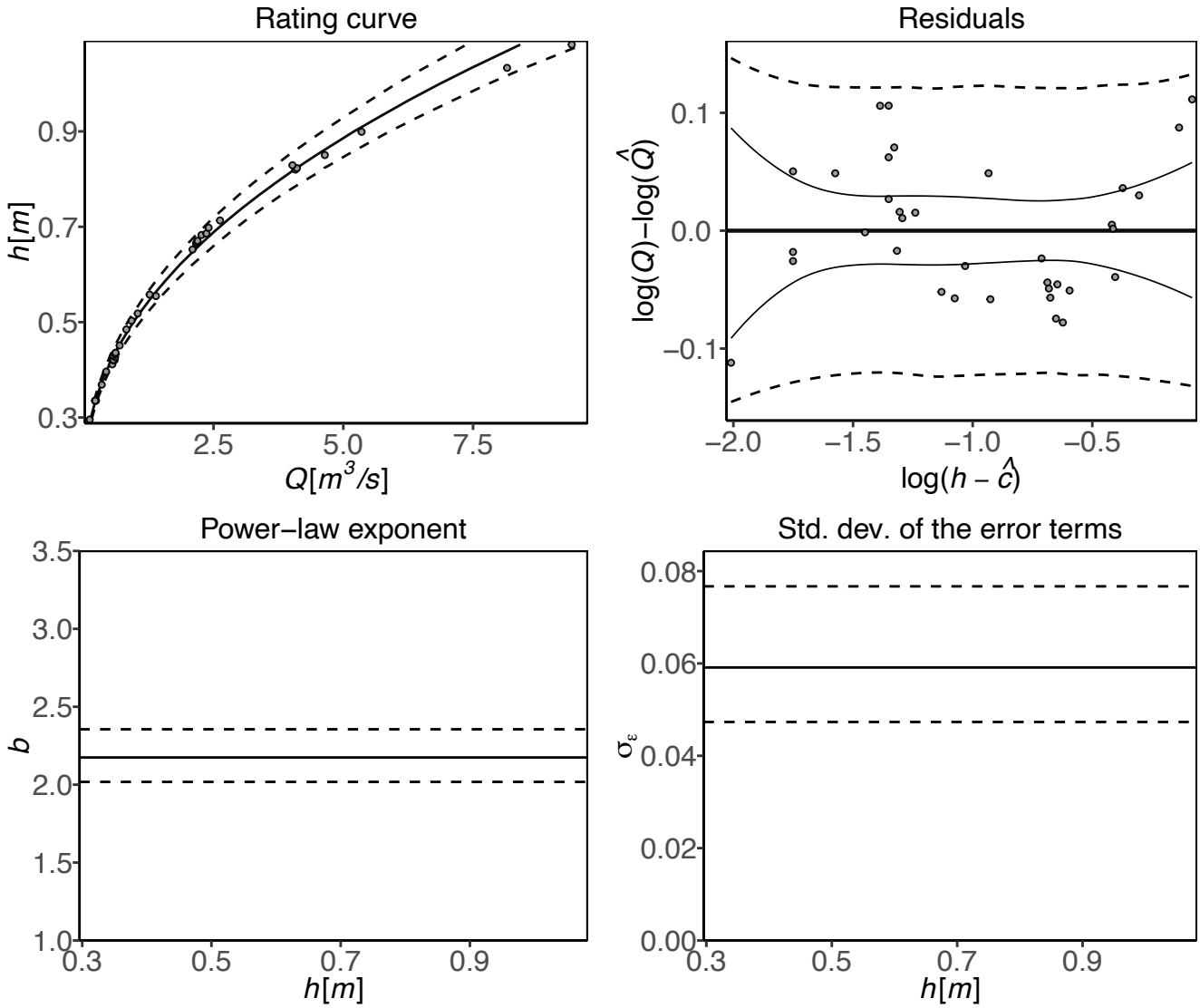
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.75	[11.16; 14.67]	7367	1.00
b	1.84	[1.83; 1.84]	12935	1.00
c	0.21	[0.18; 0.23]	4528	1.00
σ_ε	0.04	[0.03; 0.05]	4898	1.00
σ_β	0.61	[0.39; 0.96]	6667	1.00
ϕ_β	0.72	[0.31; 1.71]	5003	1.00

Robinson, Usa – PLM



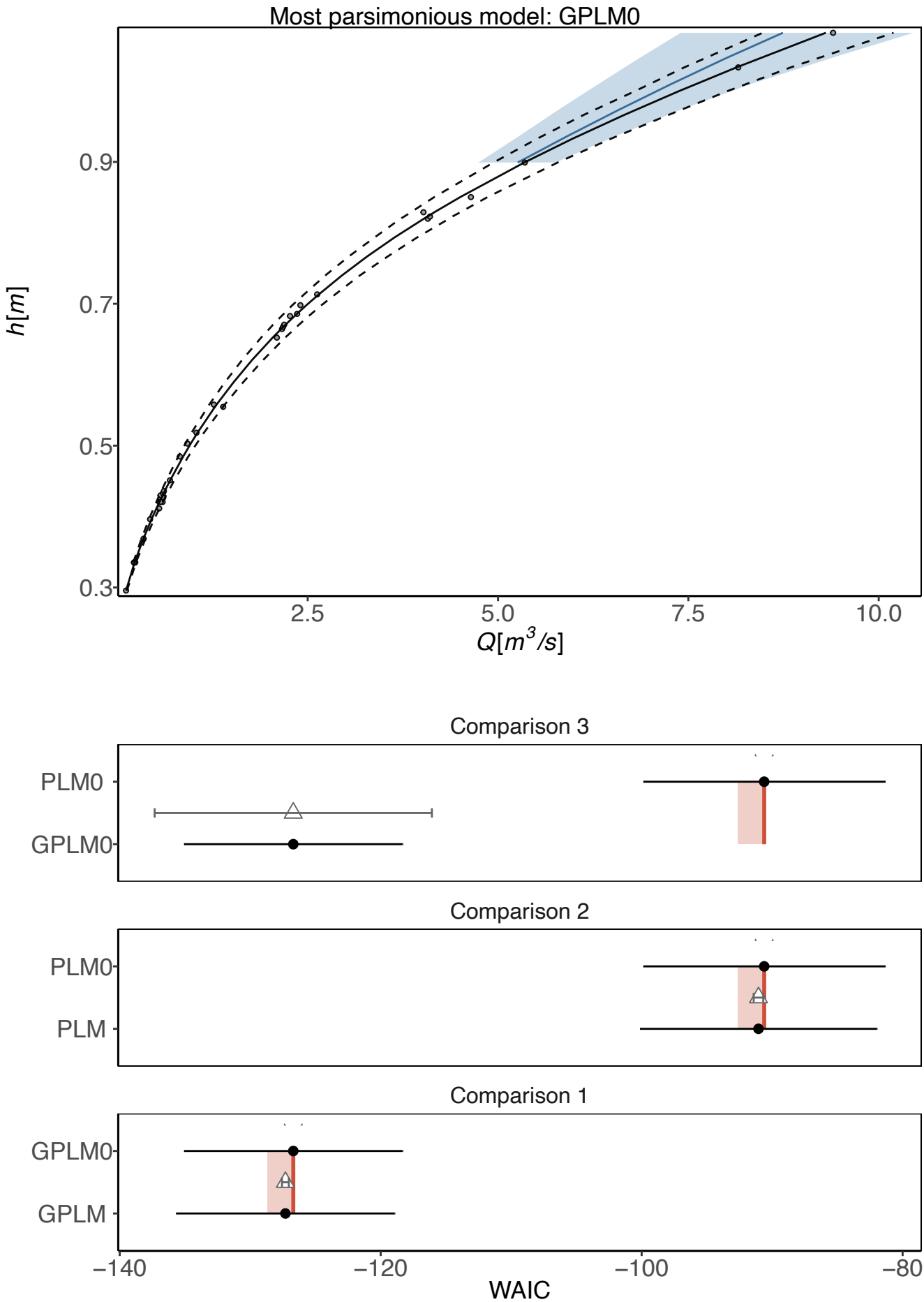
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.02	[9.51; 10.49]	3018	1.00
b	2.16	[1.99; 2.37]	1772	1.00
c	0.16	[0.13; 0.19]	1791	1.00
σ_η	0.08	[0.00; 0.50]	1648	1.01
η_1	–5.66	[–6.23; –5.00]	1617	1.00
η_2	–5.72	[–7.53; –3.91]	2580	1.00
η_3	–5.80	[–8.39; –3.21]	2541	1.00
η_4	–5.68	[–9.00; –2.51]	2735	1.00
η_5	–5.46	[–9.33; –1.72]	2732	1.00
η_6	–5.22	[–9.72; –1.10]	2812	1.00

Robinson, Usa – PLM0



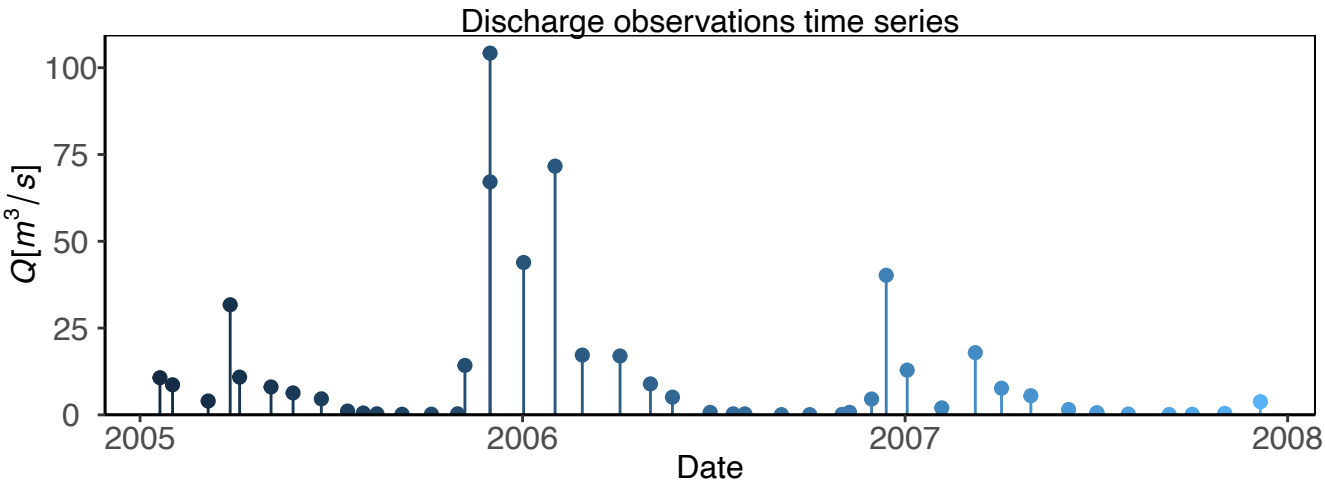
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	10.05	[9.61; 10.52]	14296	1.00
b	2.17	[2.02; 2.36]	9586	1.00
c	0.16	[0.13; 0.18]	9179	1.00
σ_ε	0.06	[0.05; 0.08]	8528	1.00

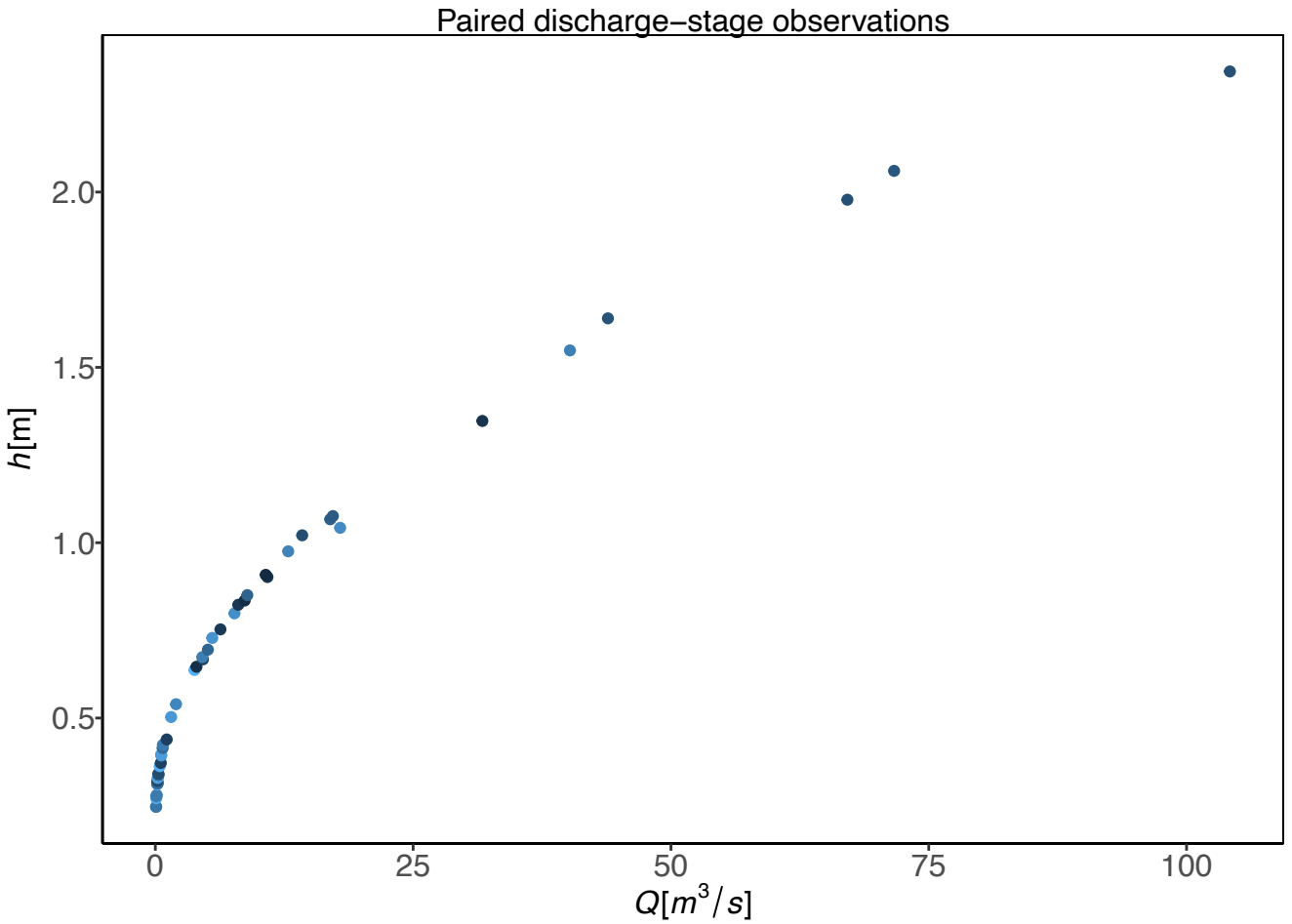
Power−law tournament results for Robinson, Usa



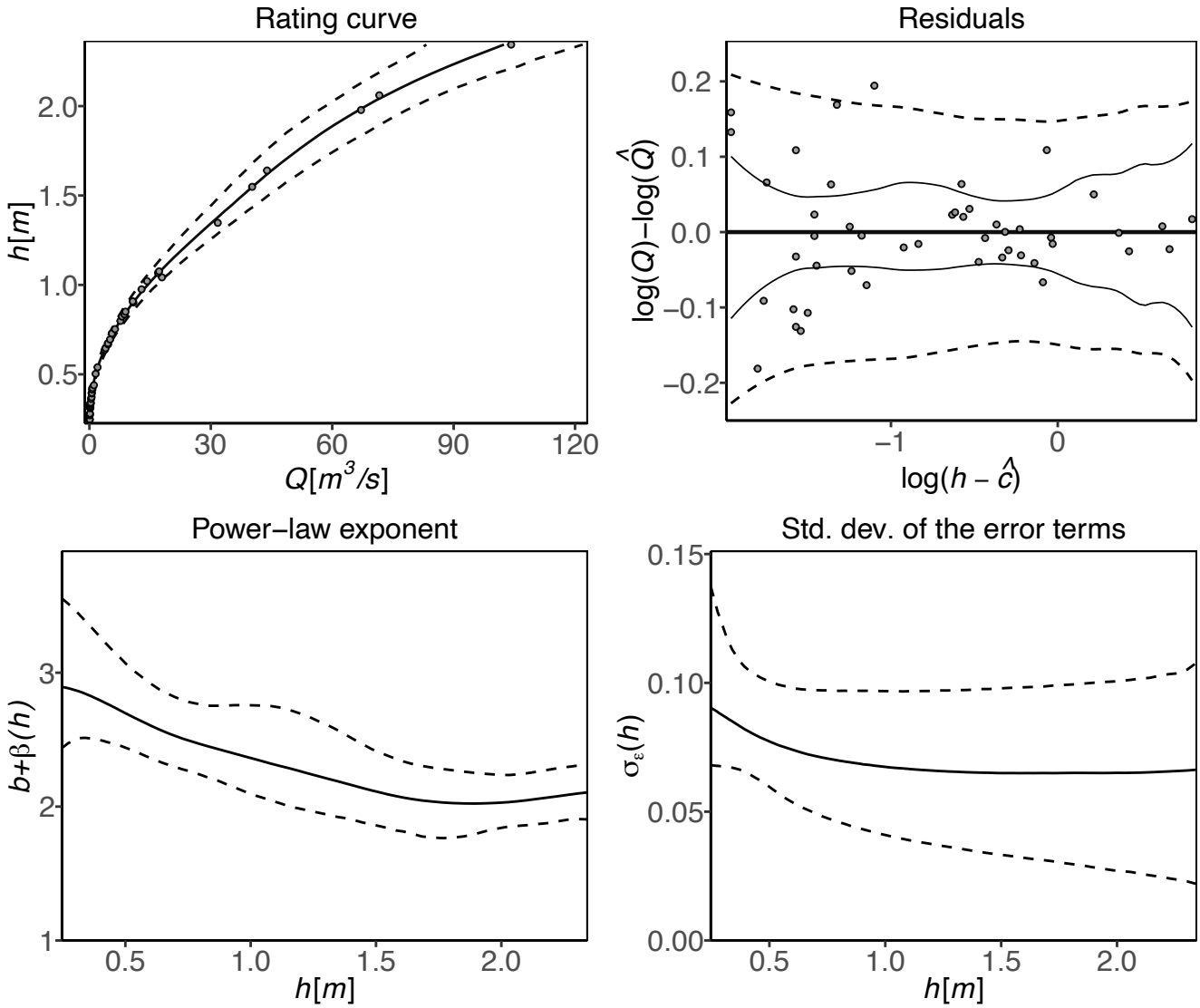
Station name:	Redwood
Location:	California, USA
Station number:	11481500
Number of observations:	47
Start date:	2005–01–20
End date:	2007–12–06
Max. discharge (m^3/s):	104.2
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	0.94
GPLM0	5.59	0.06
PLM	50.55	0.00
PLM0	53.02	0.00



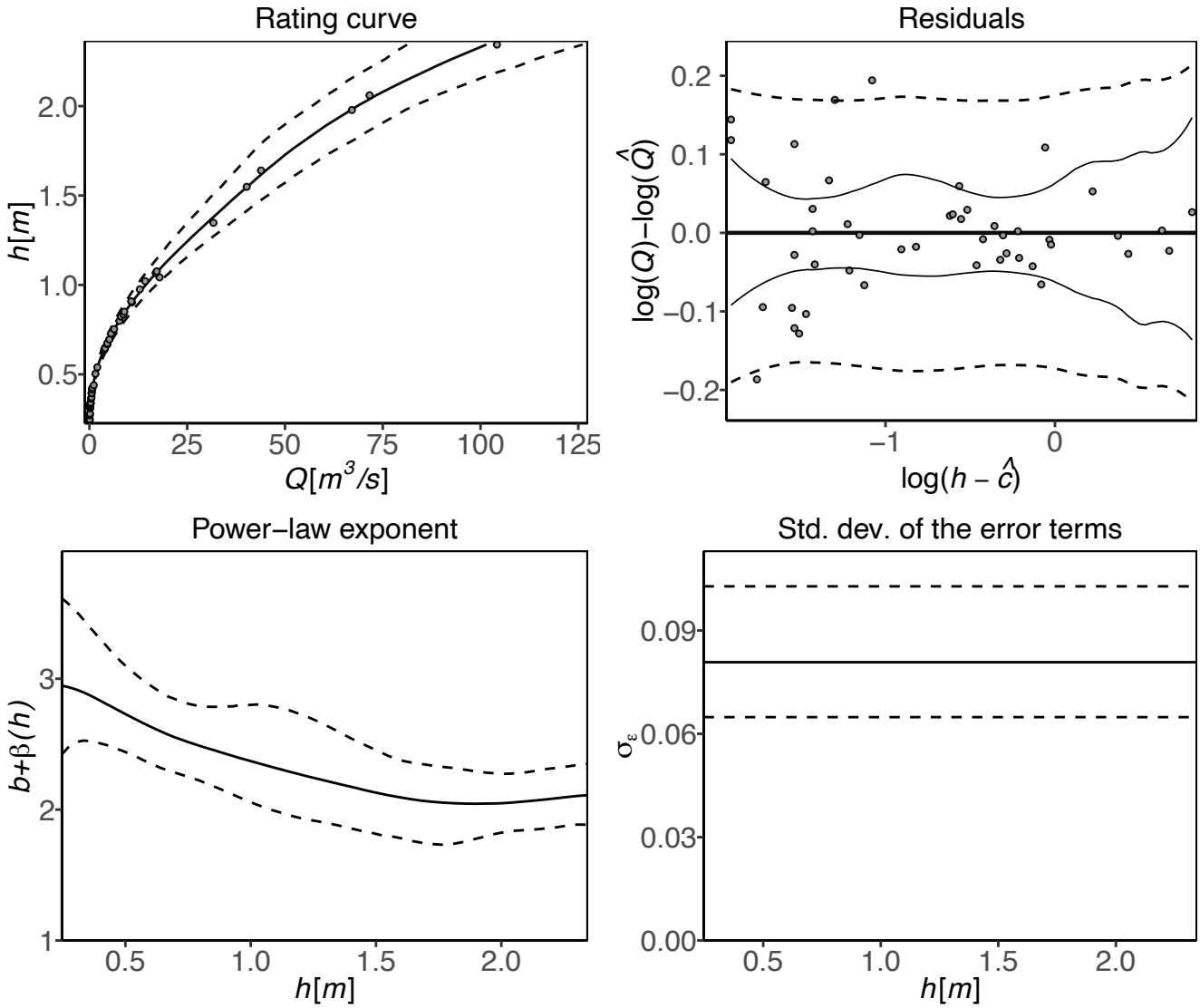


Redwood, Usa – GPLM



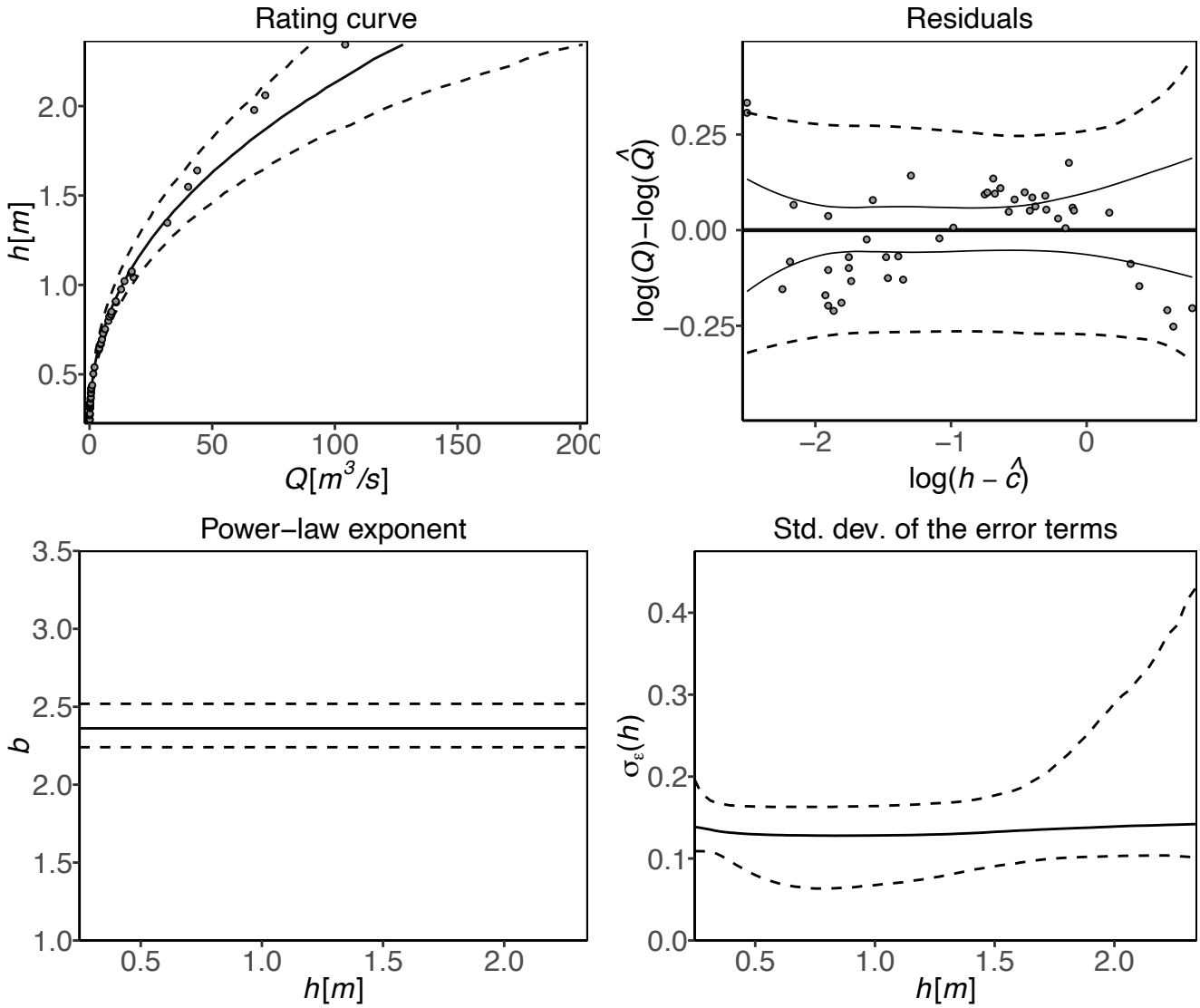
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.75	[15.47; 21.13]	1746	1.00
b	1.84	[1.83; 1.84]	9975	1.00
c	0.11	[0.03; 0.15]	1509	1.00
σ_β	0.56	[0.29; 1.15]	2271	1.00
ϕ_β	1.02	[0.33; 2.80]	2257	1.00
σ_η	0.28	[0.00; 0.84]	786	1.04
η_1	–4.81	[–5.37; –3.97]	1625	1.01
η_2	–5.79	[–7.44; –3.80]	1277	1.02
η_3	–6.68	[–8.94; –3.51]	1582	1.01
η_4	–6.94	[–9.79; –3.15]	2014	1.00
η_5	–7.04	[–10.45; –2.74]	2165	1.00
η_6	–7.01	[–10.93; –2.45]	2280	1.00

Redwood, Usa – GPLM0



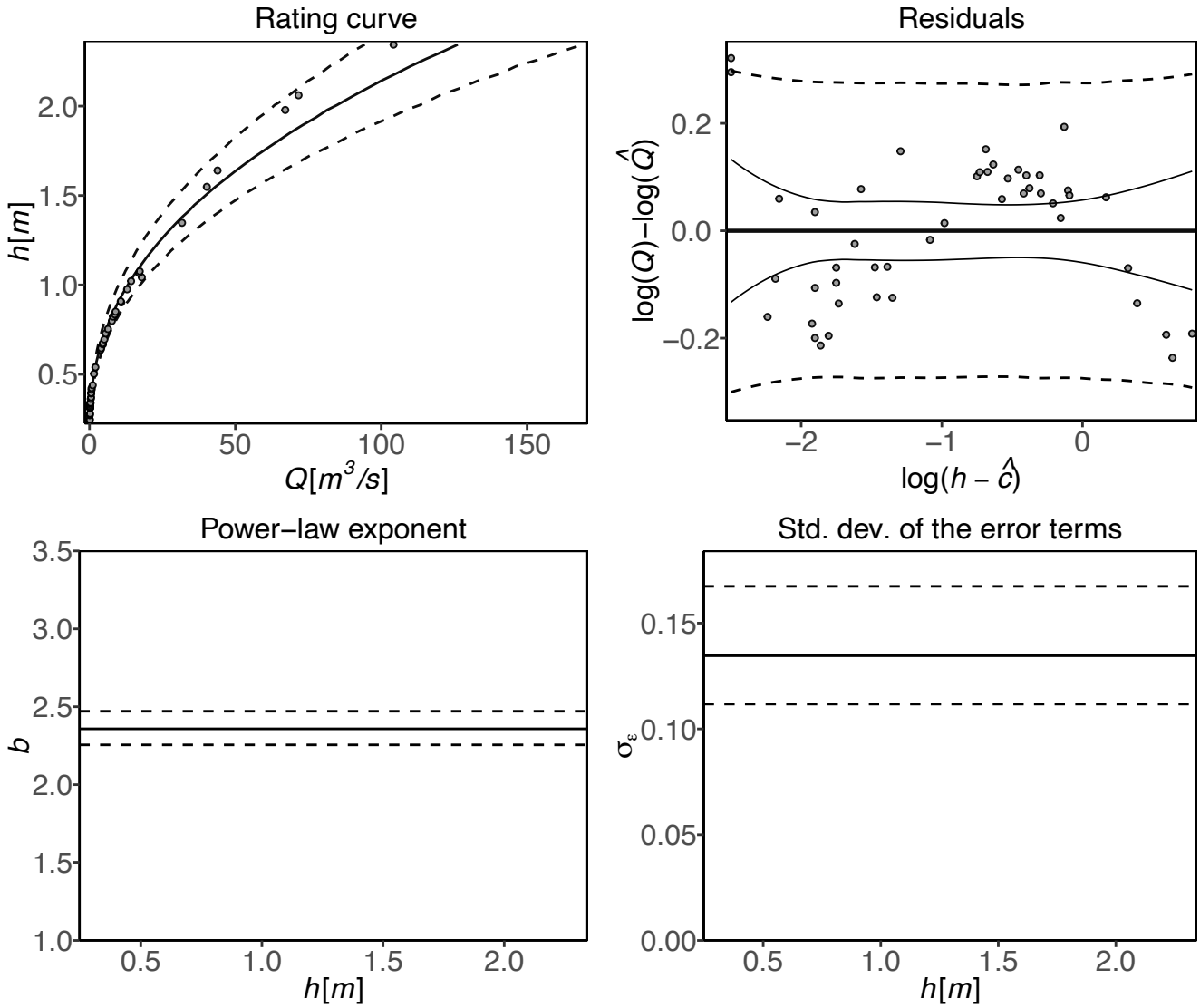
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.44	[15.11; 21.23]	3330	1.00
b	1.84	[1.83; 1.84]	10862	1.00
c	0.10	[0.02; 0.15]	2674	1.00
σ_ε	0.08	[0.06; 0.10]	4633	1.00
σ_β	0.76	[0.54; 1.09]	4587	1.00
ϕ_β	0.96	[0.29; 2.81]	3723	1.00

Redwood, Usa – PLM



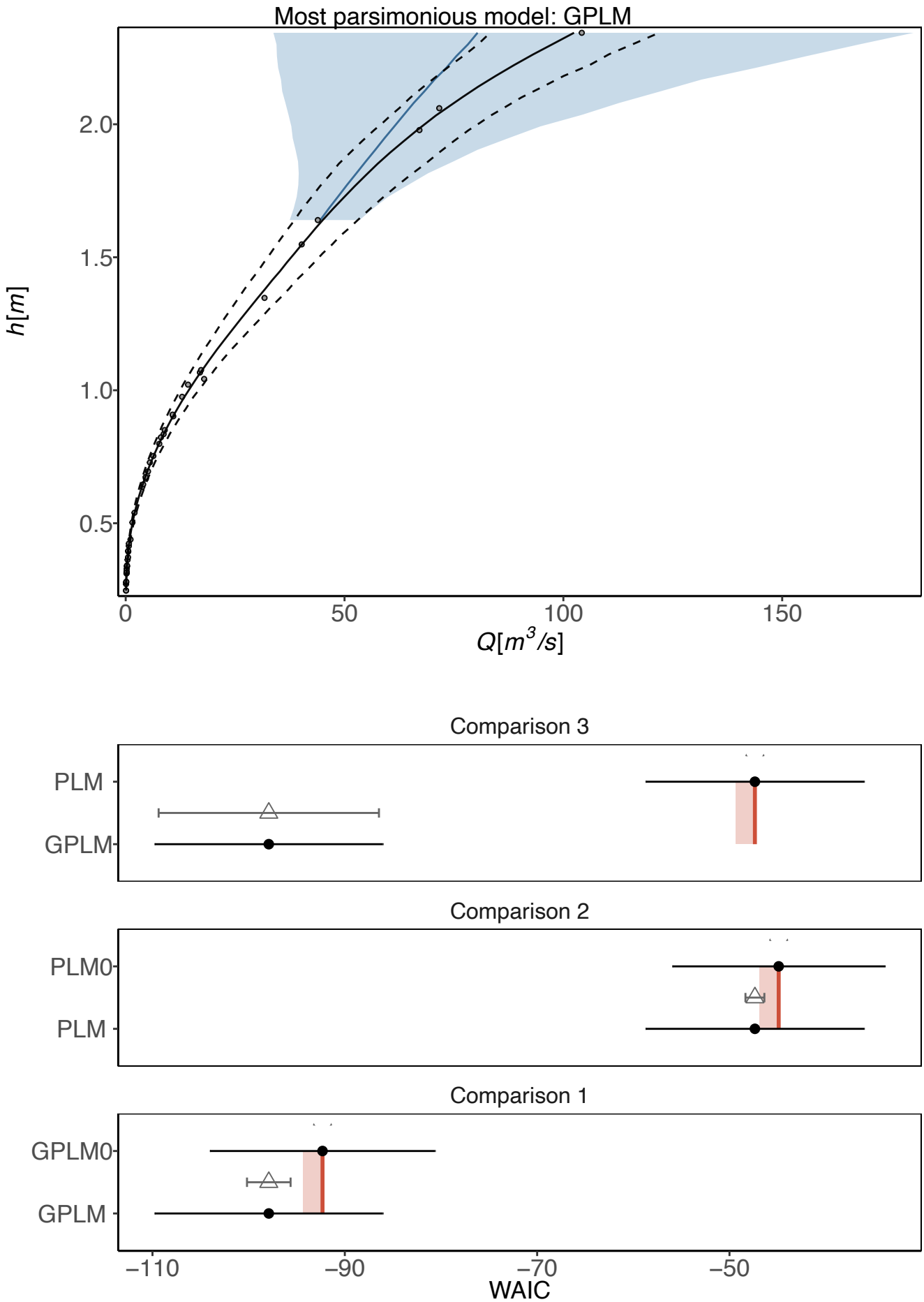
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	20.33	[18.99; 22.22]	2898	1.00
b	2.36	[2.24; 2.52]	2000	1.00
c	0.17	[0.15; 0.18]	1810	1.01
σ_η	0.13	[0.00; 1.06]	1637	1.00
η_1	–3.95	[–4.43; –3.26]	1499	1.01
η_2	–4.51	[–6.32; –2.44]	2150	1.00
η_3	–4.64	[–6.97; –1.81]	2581	1.00
η_4	–4.16	[–7.24; –1.06]	2185	1.00
η_5	–3.66	[–7.60; –0.30]	2282	1.00
η_6	–3.46	[–7.88; 0.32]	2472	1.00

Redwood, Usa – PLM0



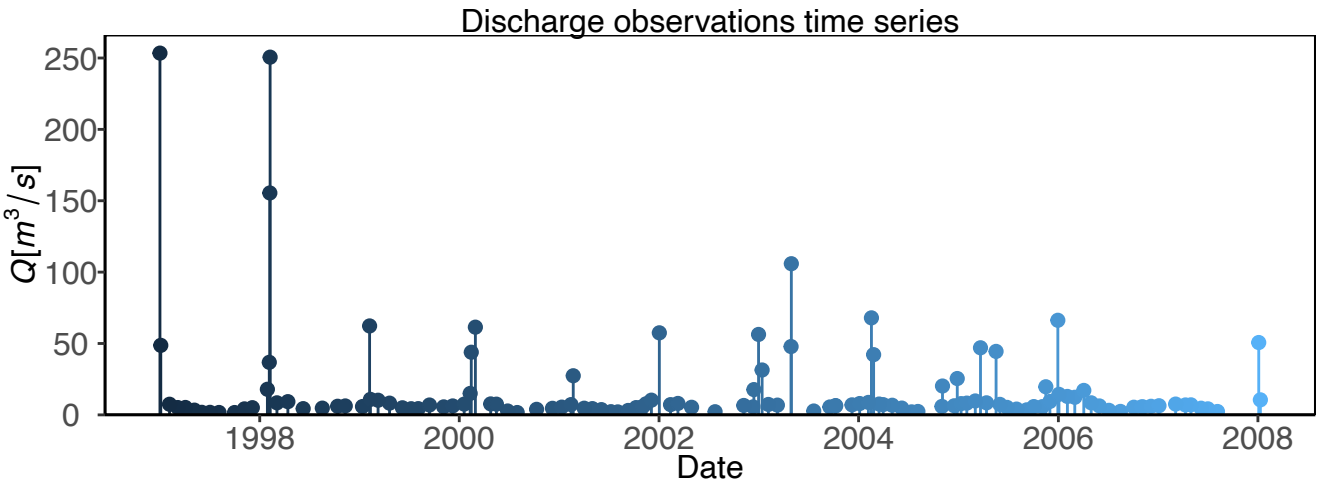
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	20.07	[18.82; 21.34]	15797	1.00
b	2.36	[2.26; 2.47]	10409	1.00
c	0.16	[0.15; 0.18]	10032	1.00
σ_ε	0.13	[0.11; 0.17]	10155	1.00

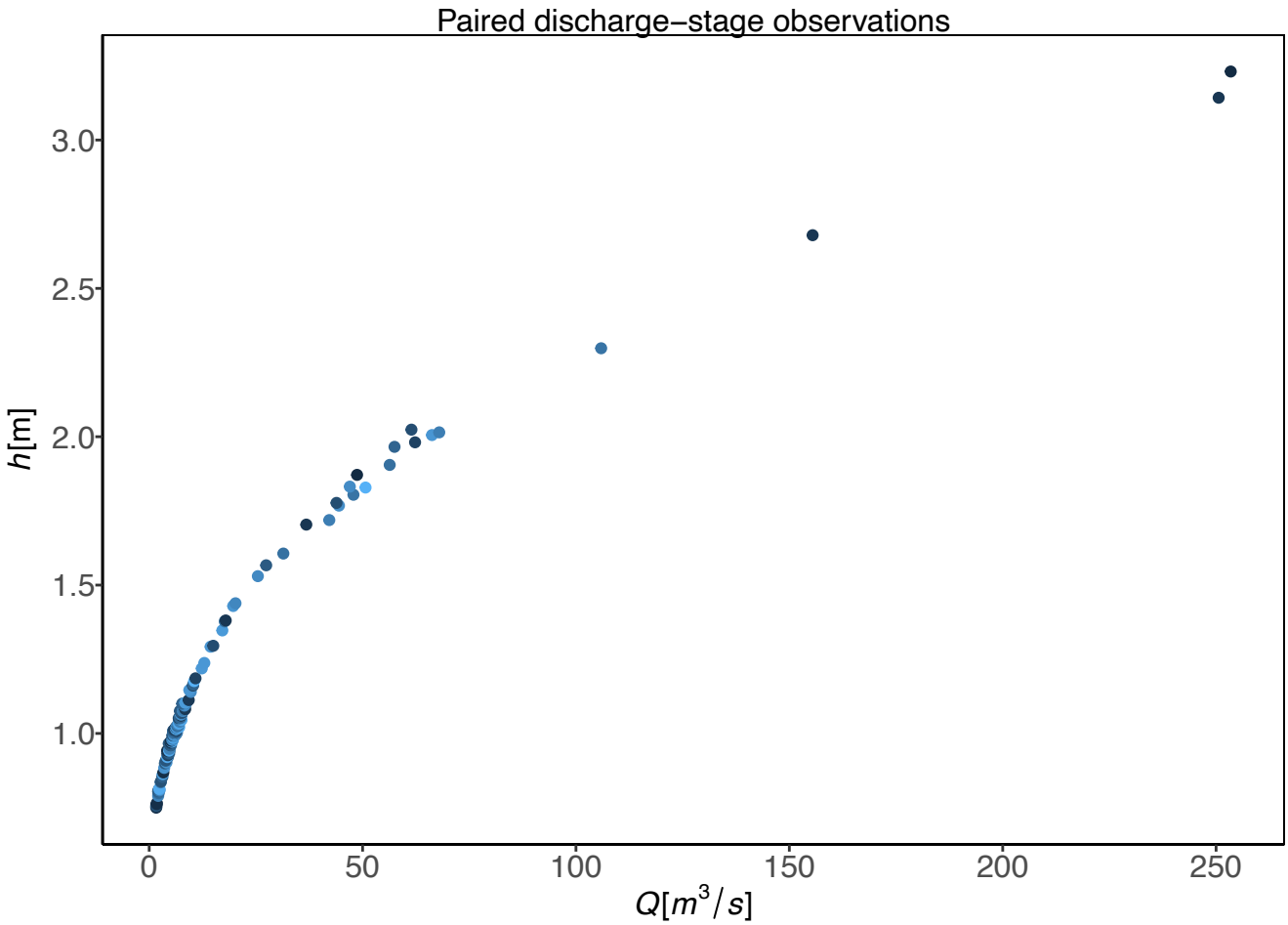
Power−law tournament results for Redwood, Usa



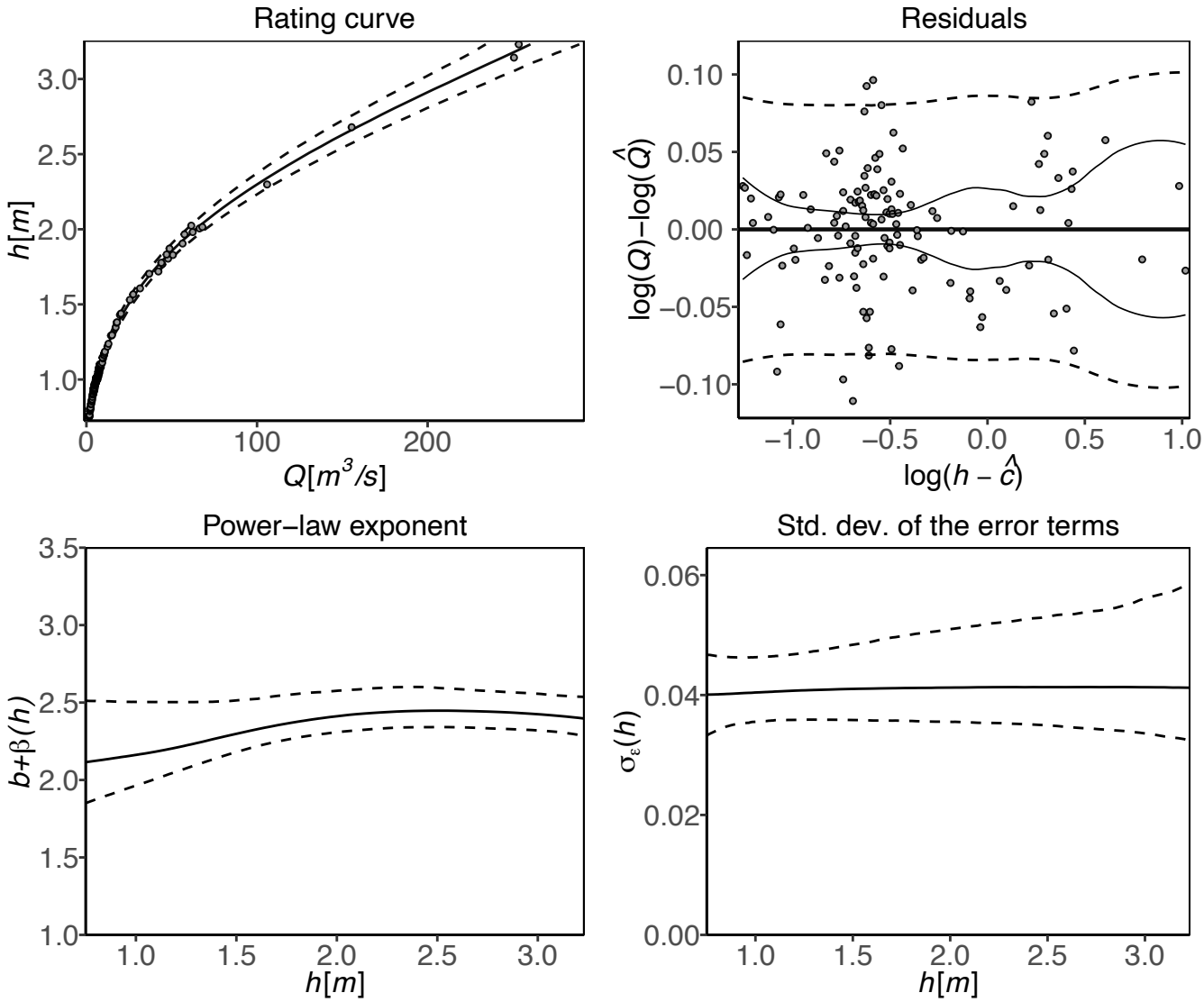
Station name:	Clear
Location:	California, USA
Station number:	11372000
Number of observations:	126
Start date:	1997–01–01
End date:	2008–01–10
Max. discharge (m^3/s):	253.4
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	1.40	0.33
GPLM0	0.00	0.66
PLM	10.71	0.00
PLM0	10.95	0.00



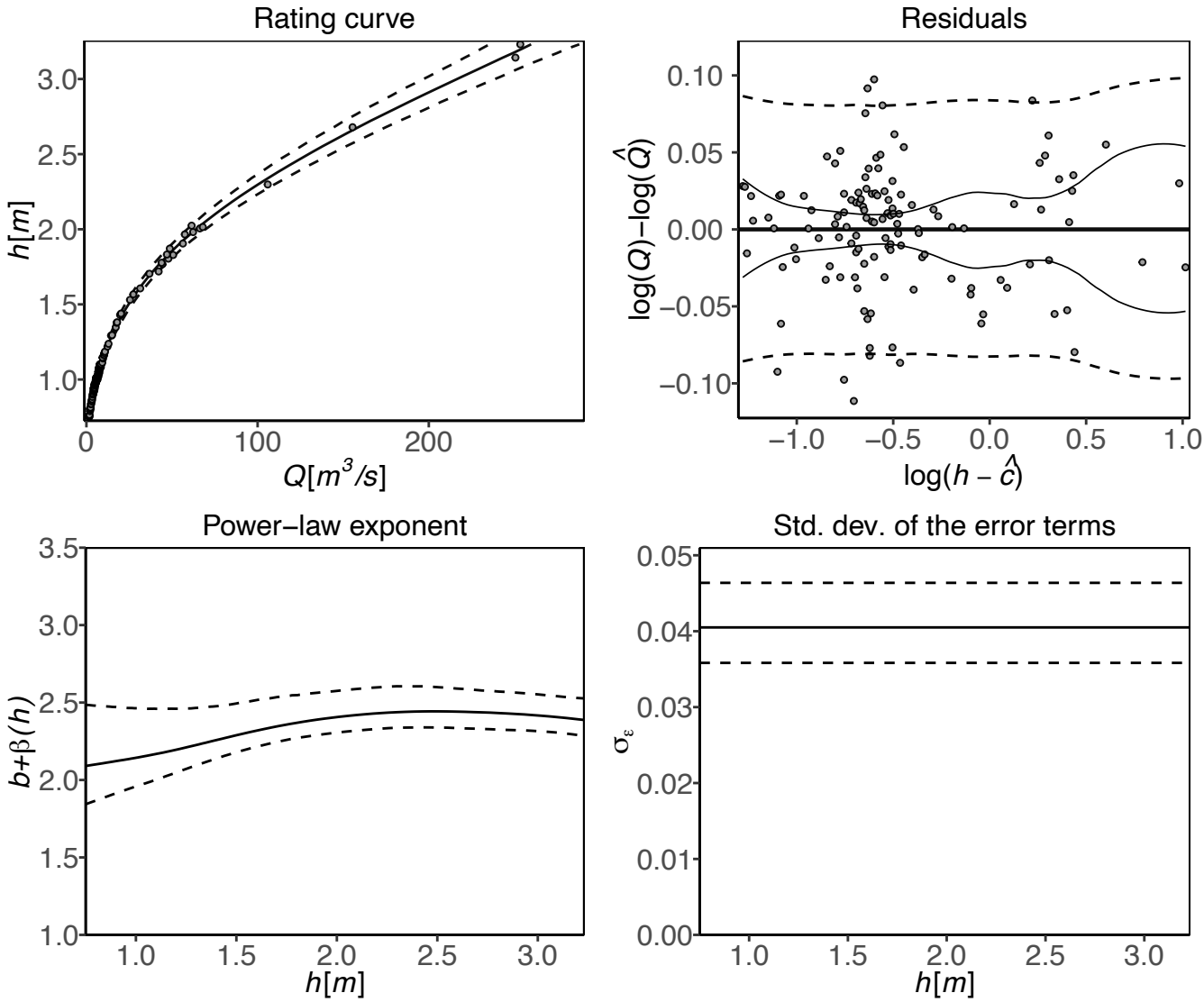


Clear, Usa – GPLM



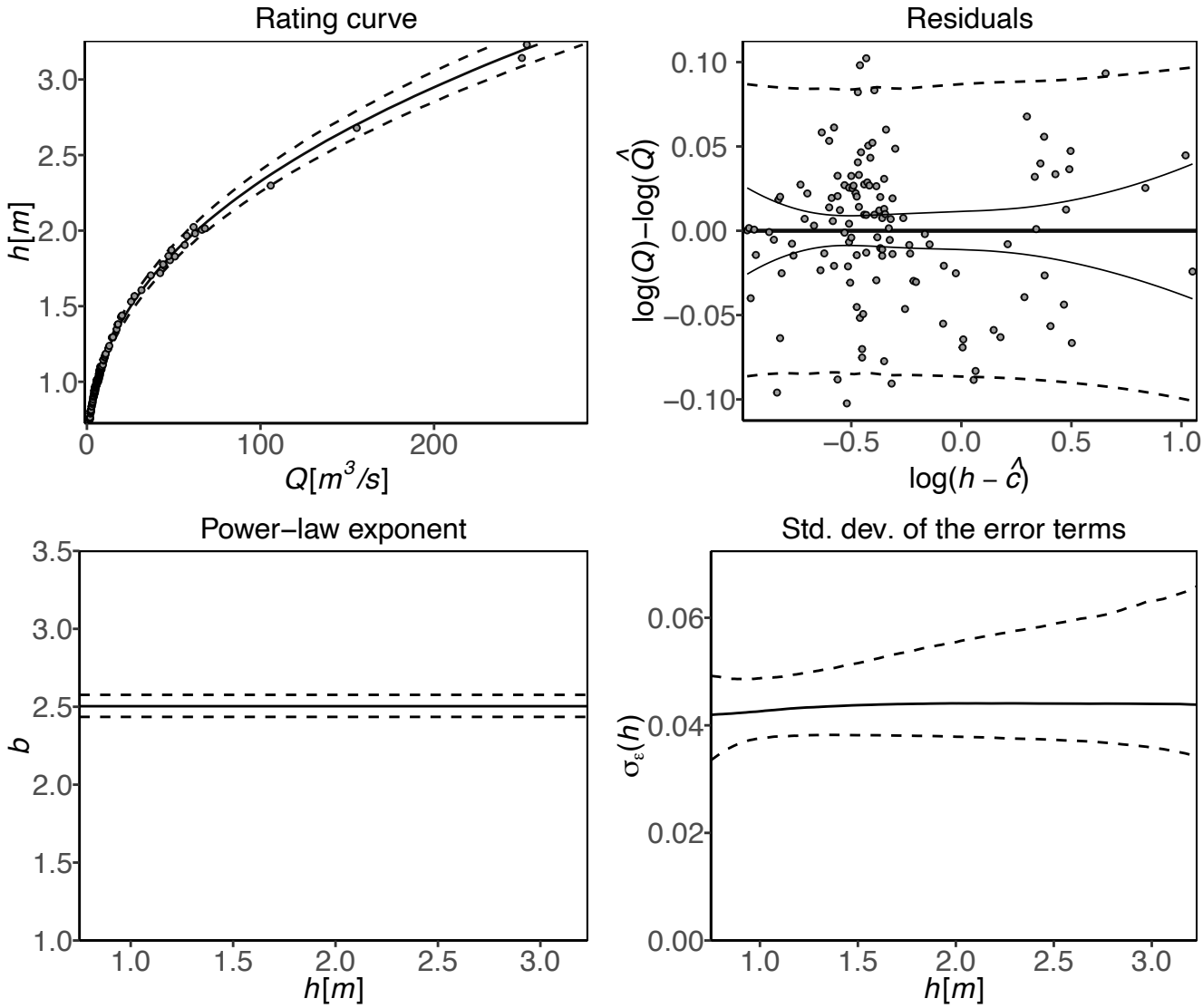
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	22.79	[18.38; 26.21]	1279	1.01
b	1.84	[1.83; 1.84]	8848	1.00
c	0.47	[0.37; 0.53]	1291	1.01
σ_β	0.38	[0.20; 0.84]	2093	1.00
ϕ_β	2.44	[0.94; 136.75]	788	1.03
σ_η	0.08	[0.00; 0.38]	1524	1.00
η_1	−6.44	[−6.81; −6.13]	1738	1.00
η_2	−6.26	[−8.10; −4.44]	2008	1.00
η_3	−6.03	[−8.73; −3.59]	2098	1.00
η_4	−5.88	[−9.22; −2.80]	2151	1.00
η_5	−5.89	[−9.67; −2.27]	2226	1.00
η_6	−5.90	[−10.13; −1.83]	2210	1.00

Clear, Usa – GPLM0



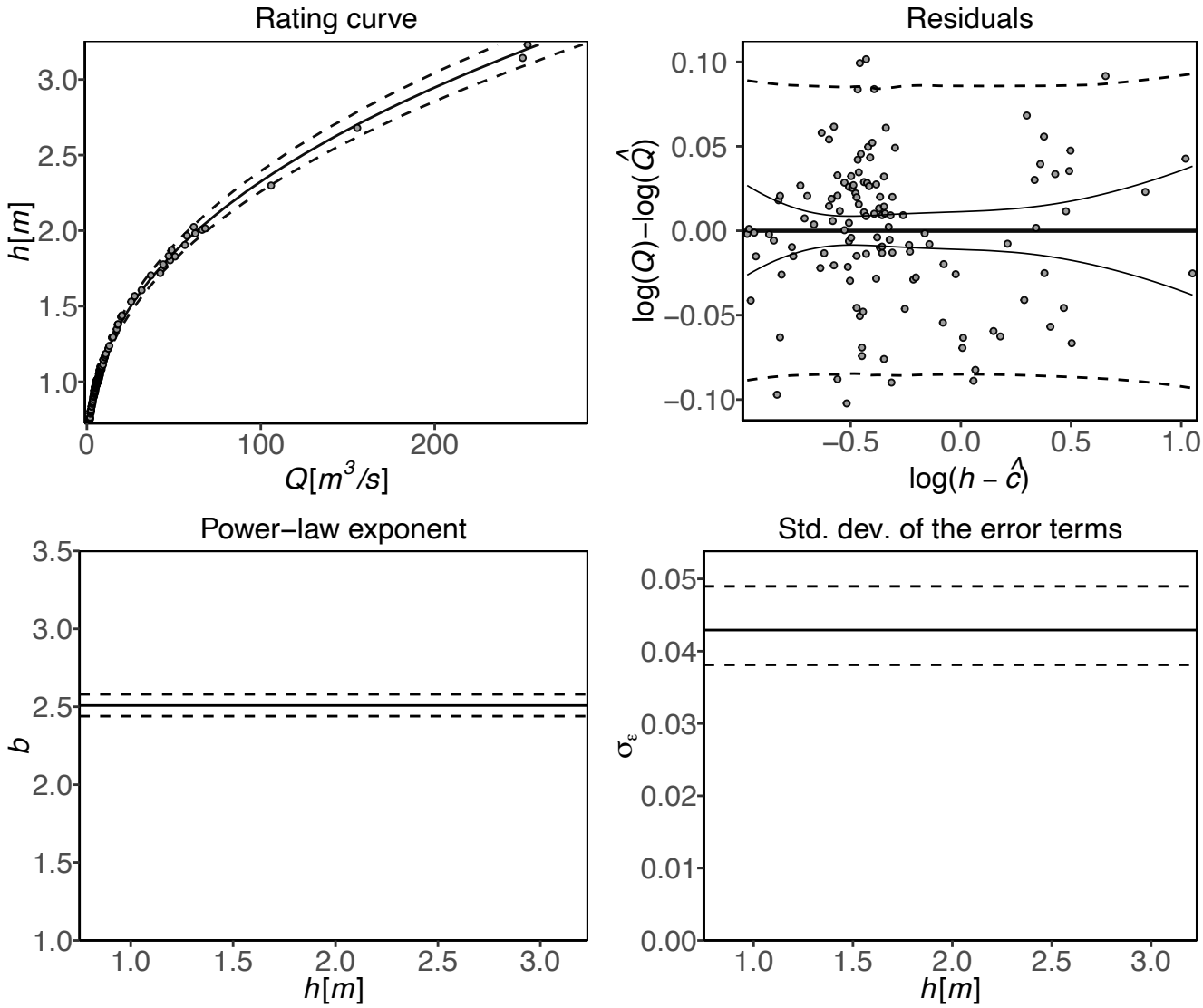
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	23.07	[18.52; 26.35]	2372	1.00
b	1.84	[1.83; 1.84]	12718	1.00
c	0.47	[0.37; 0.53]	2501	1.00
σ_ε	0.04	[0.04; 0.05]	4732	1.00
σ_β	0.62	[0.45; 0.91]	4950	1.00
ϕ_β	2.35	[0.90; 14.52]	1057	1.02

Clear, Usa – PLM



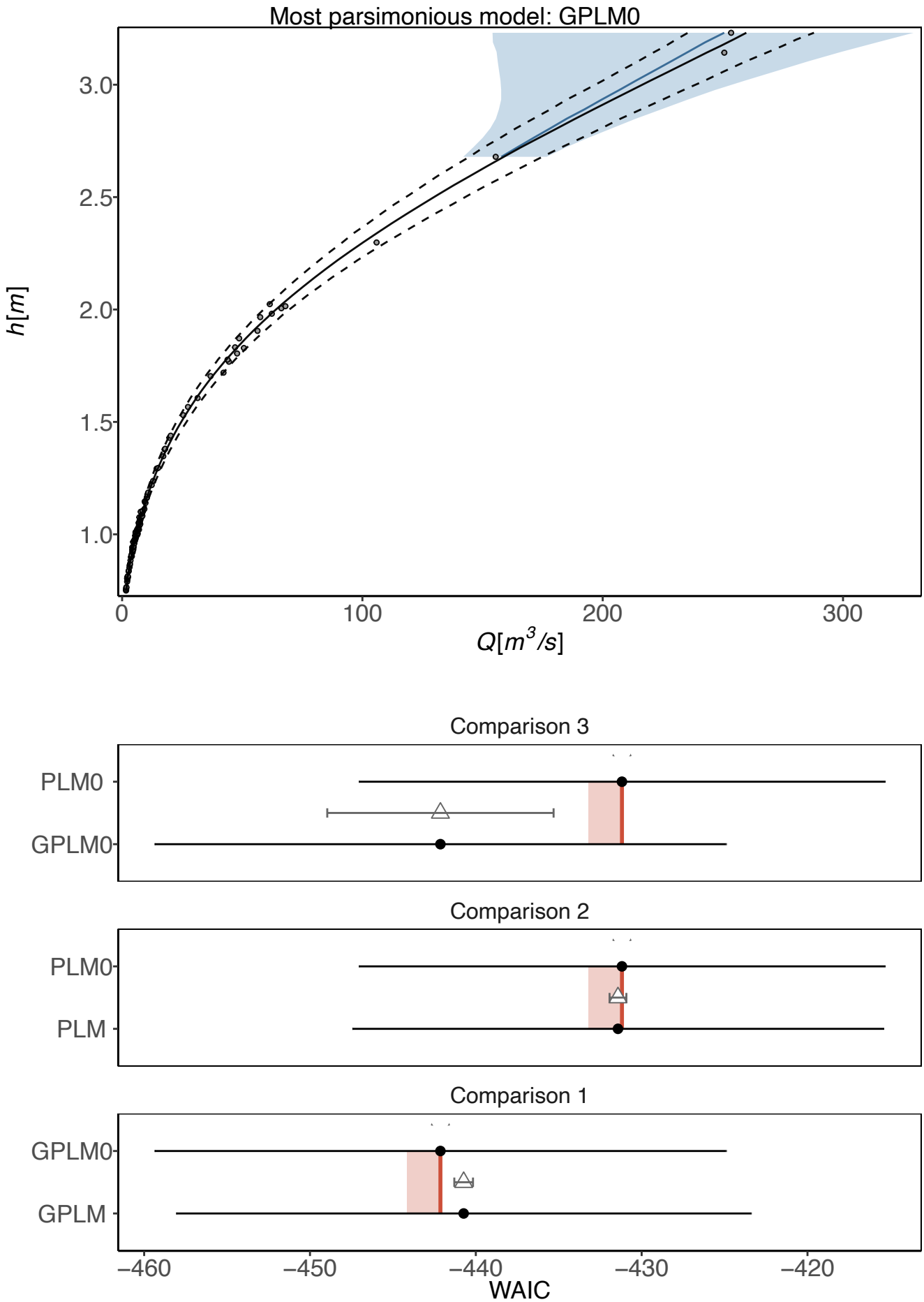
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.69	[17.51; 19.85]	2617	1.00
b	2.50	[2.43; 2.58]	2739	1.00
c	0.37	[0.35; 0.39]	2566	1.00
σ_η	0.09	[0.00; 0.45]	1348	1.00
η_1	–6.34	[–6.79; –6.02]	2677	1.00
η_2	–6.01	[–7.99; –4.22]	2192	1.00
η_3	–5.66	[–8.49; –3.11]	2250	1.00
η_4	–5.52	[–8.96; –2.51]	2516	1.00
η_5	–5.52	[–9.56; –1.80]	2491	1.00
η_6	–5.58	[–9.97; –1.34]	2726	1.00

Clear, Usa – PLM0



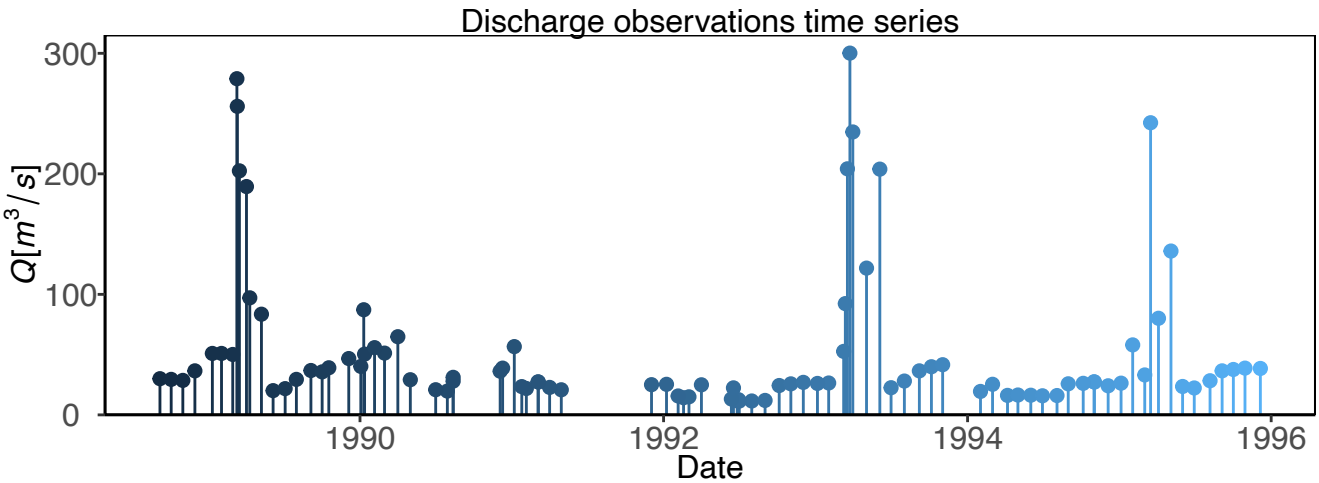
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.62	[17.40; 19.80]	9136	1.00
b	2.51	[2.44; 2.58]	9351	1.00
c	0.37	[0.35; 0.39]	9125	1.00
σ_ε	0.04	[0.04; 0.05]	8670	1.00

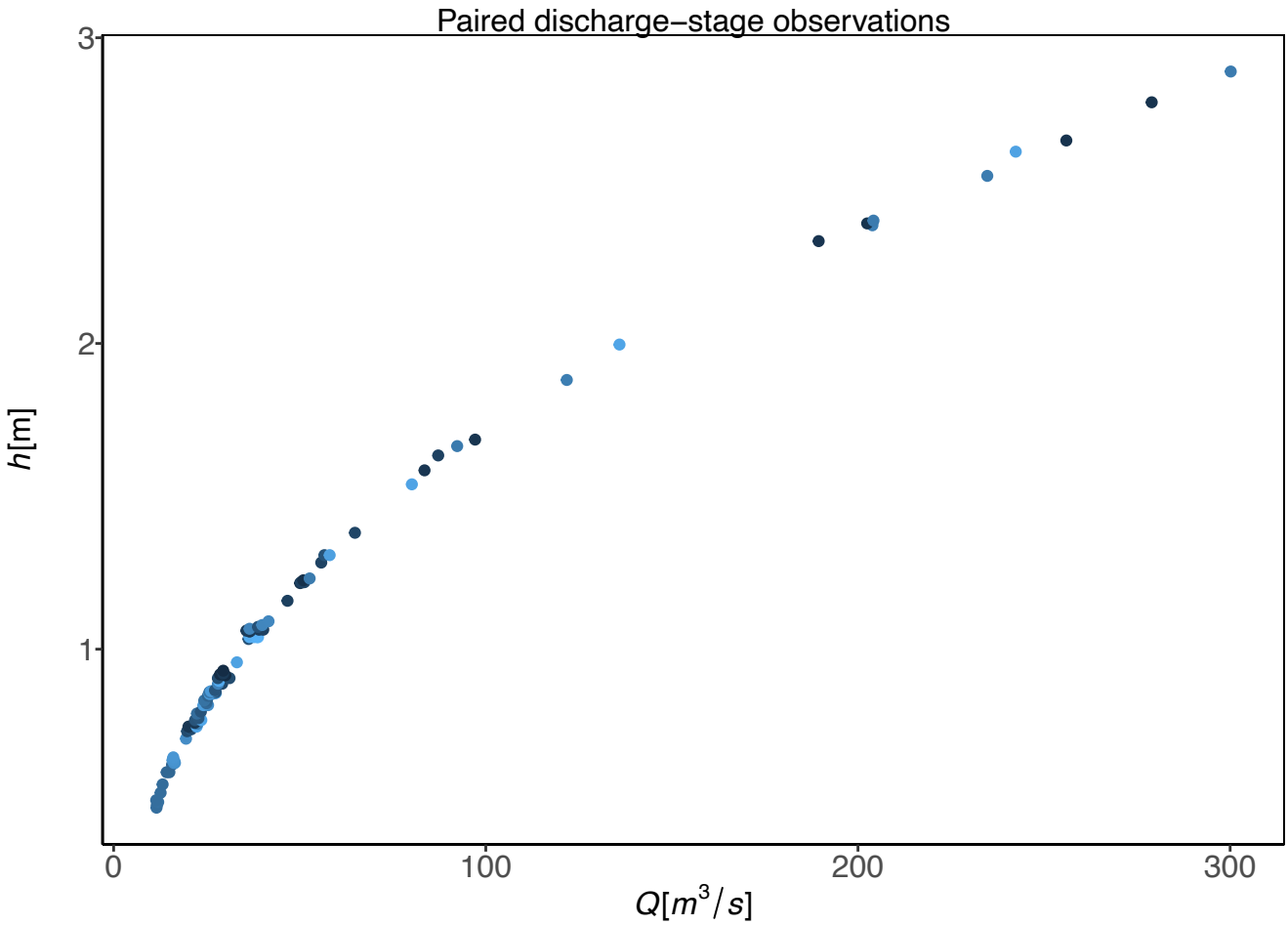
Power−law tournament results for Clear, Usa



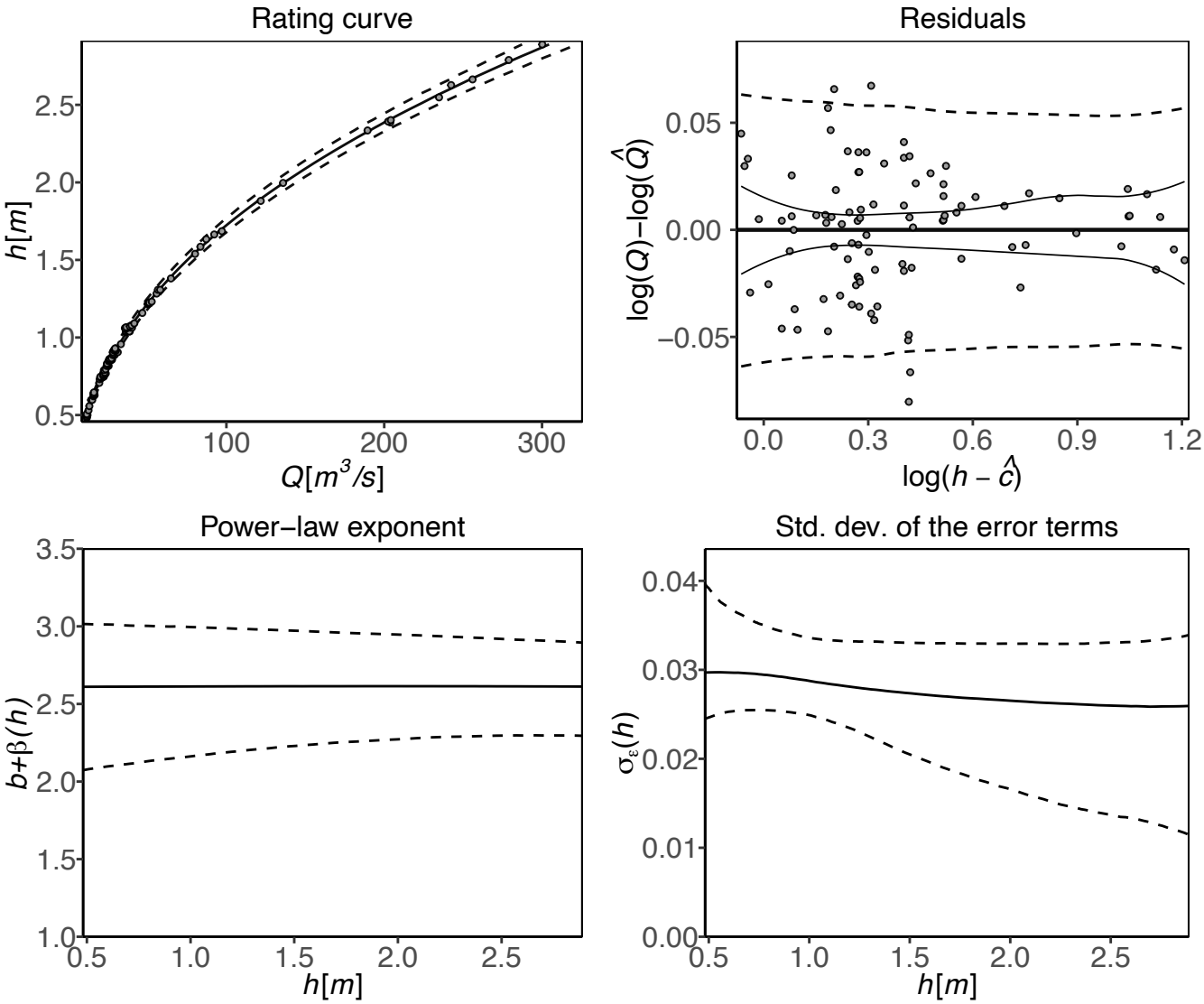
Station name:	Klamath
Location:	California, USA
Station number:	11516530
Number of observations:	95
Start date:	1988–09–07
End date:	1995–12–06
Max. discharge (m^3/s):	300.2
Tournament winner:	PLM

	dWAIC	Akaike weights
GPLM	0.00	0.42
GPLM0	2.68	0.11
PLM	0.38	0.35
PLM0	2.39	0.13



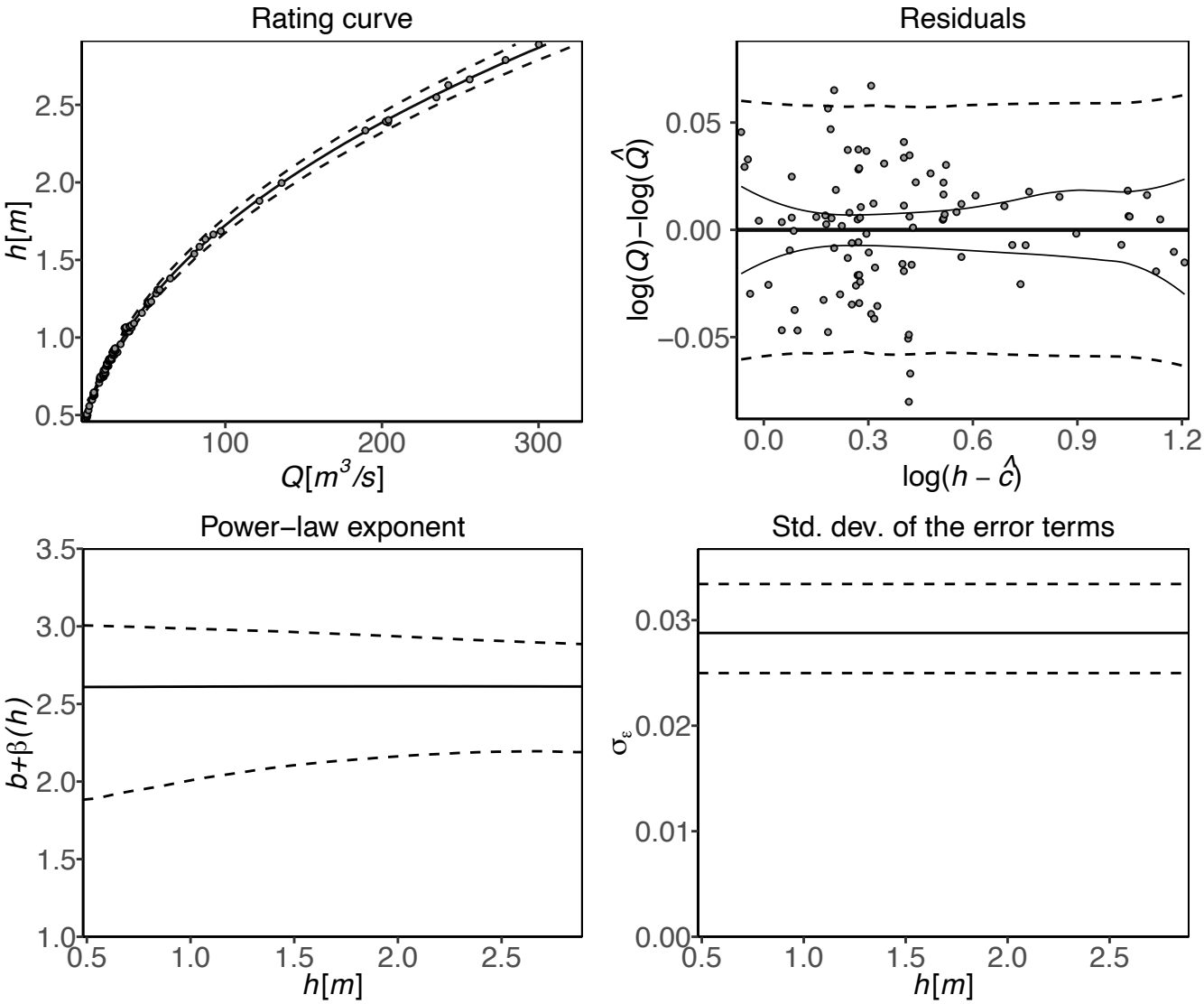


Klamath, Usa – GPLM



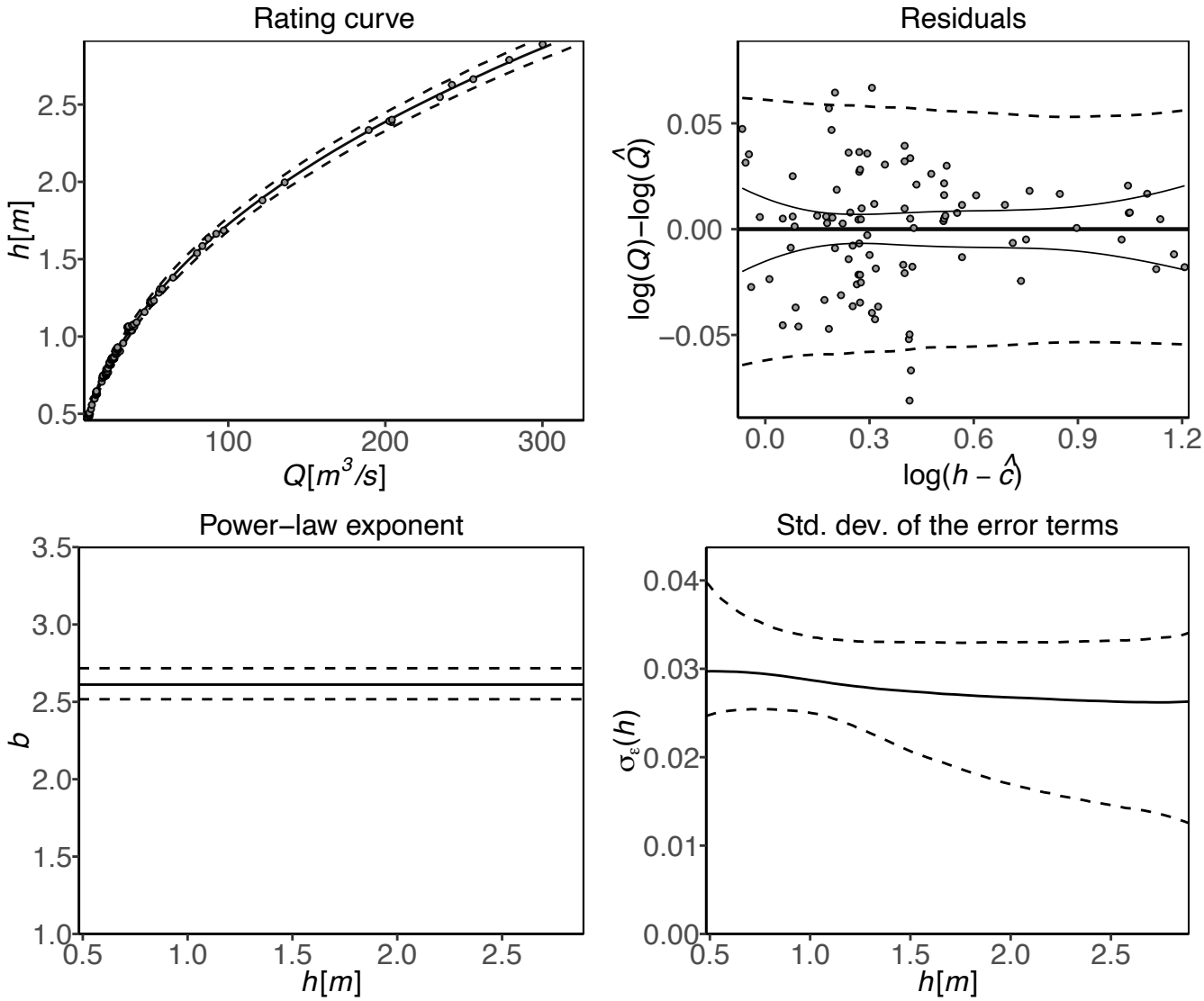
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	13.03	[7.85; 22.17]	900	1.00
b	1.84	[1.83; 1.84]	8963	1.00
c	–0.46	[–0.64; –0.23]	872	1.00
σ_β	0.48	[0.24; 1.00]	1853	1.00
ϕ_β	37.12	[3.20; 14501.10]	1079	1.00
σ_η	0.16	[0.01; 0.62]	926	1.03
η_1	–7.03	[–7.42; –6.46]	2187	1.00
η_2	–7.07	[–8.80; –5.49]	1516	1.01
η_3	–7.69	[–9.98; –5.15]	1541	1.01
η_4	–8.39	[–11.22; –4.96]	1637	1.01
η_5	–8.71	[–12.04; –4.58]	1882	1.01
η_6	–8.75	[–12.51; –4.26]	2056	1.00

Klamath, Usa – GPLM0



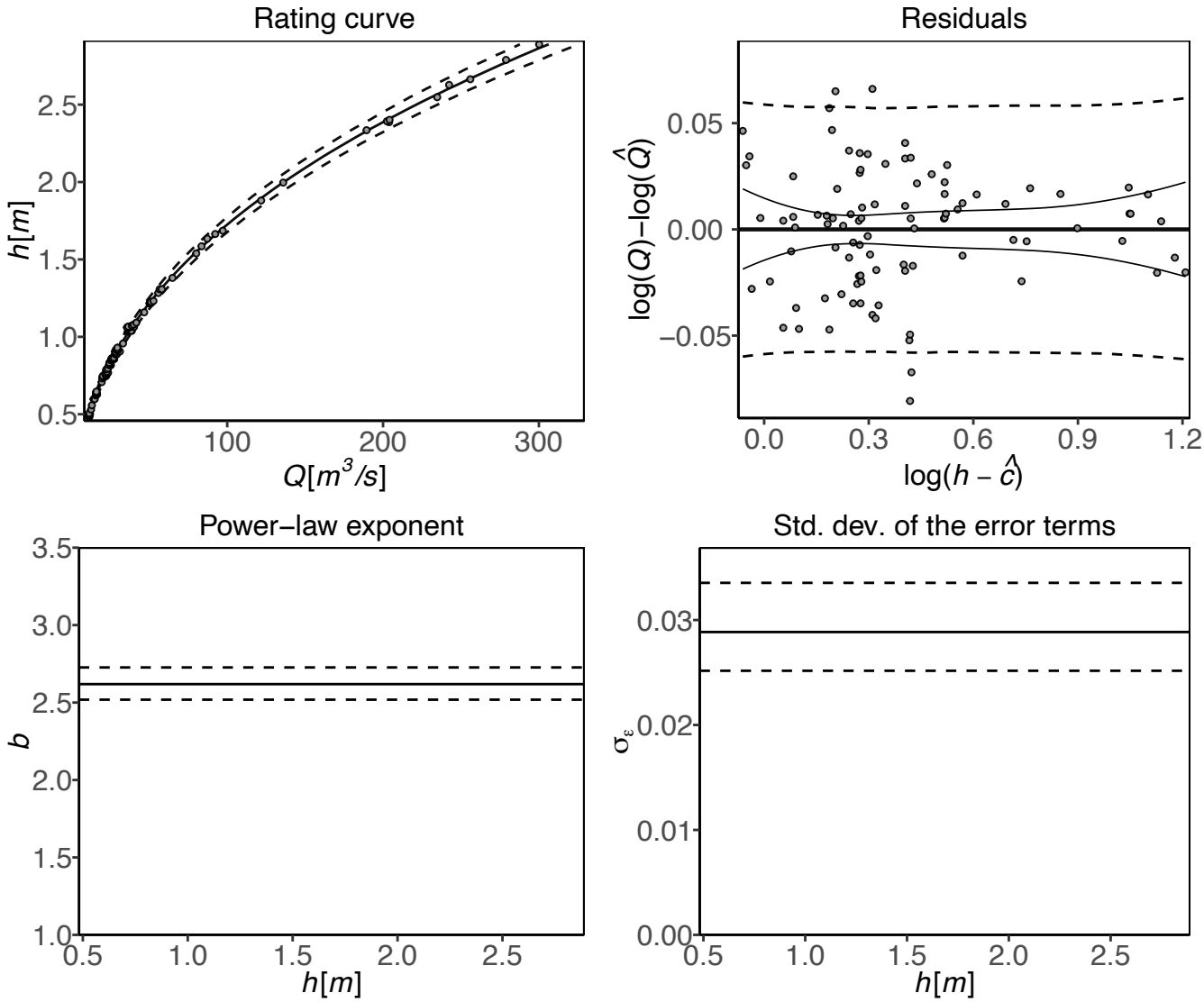
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	13.04	[7.99; 26.43]	1049	1.04
b	1.84	[1.83; 1.84]	12167	1.00
c	–0.46	[–0.64; –0.14]	935	1.05
σ_ε	0.03	[0.02; 0.03]	4796	1.00
σ_β	0.69	[0.47; 1.01]	2990	1.00
ϕ_β	37.18	[2.45; 31490.92]	1532	1.01

Klamath, Usa – PLM



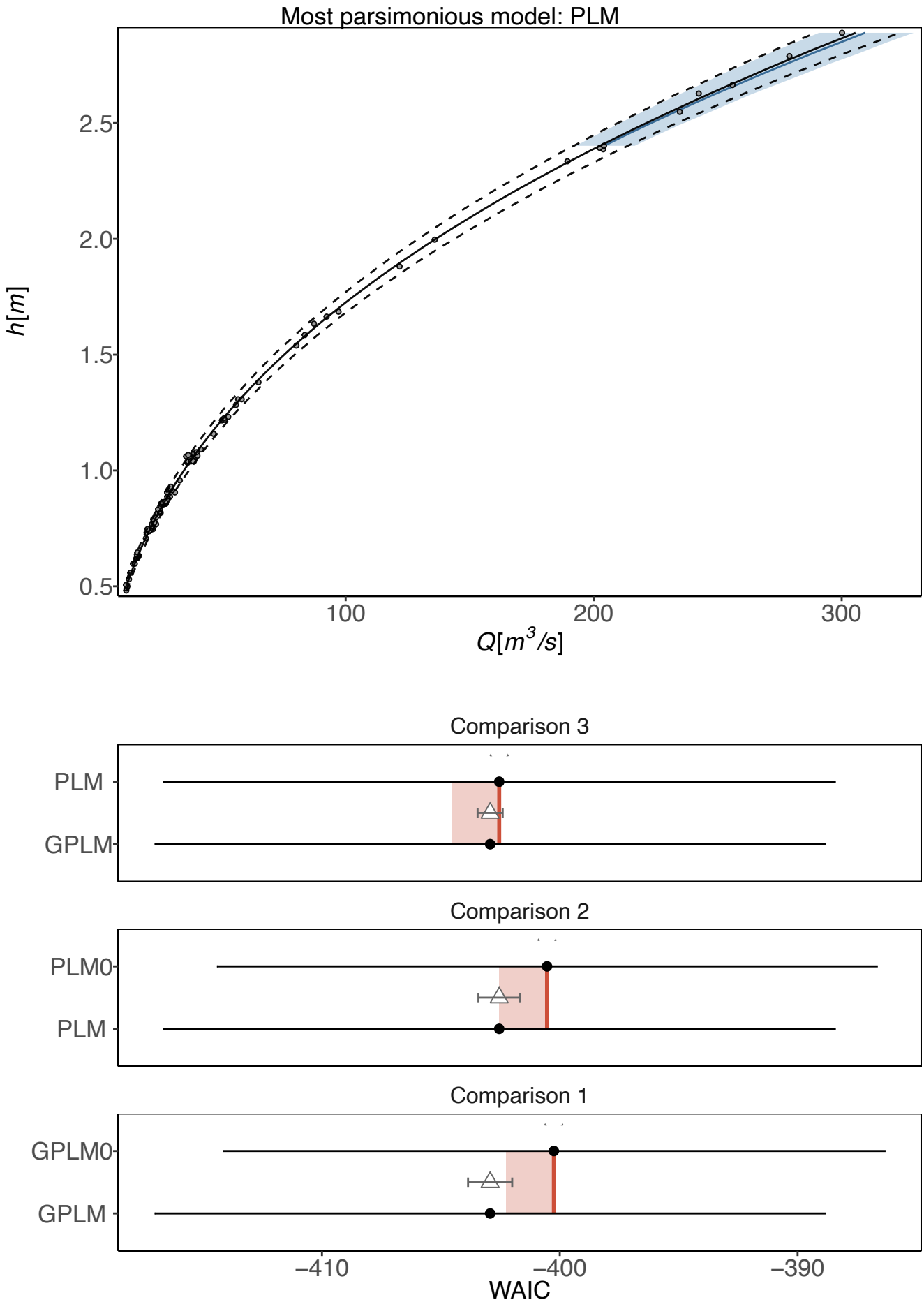
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	13.08	[11.06; 15.13]	2675	1.00
b	2.61	[2.52; 2.72]	2732	1.00
c	–0.45	[–0.52; –0.39]	2662	1.00
σ_η	0.14	[0.00; 0.62]	891	1.03
η_1	–7.03	[–7.41; –6.45]	2688	1.00
η_2	–7.11	[–8.81; –5.47]	1816	1.01
η_3	–7.74	[–9.88; –5.05]	1830	1.01
η_4	–8.34	[–11.11; –4.79]	1852	1.01
η_5	–8.65	[–11.98; –4.43]	2368	1.00
η_6	–8.69	[–12.58; –4.15]	2775	1.00

Klamath, Usa – PLM0



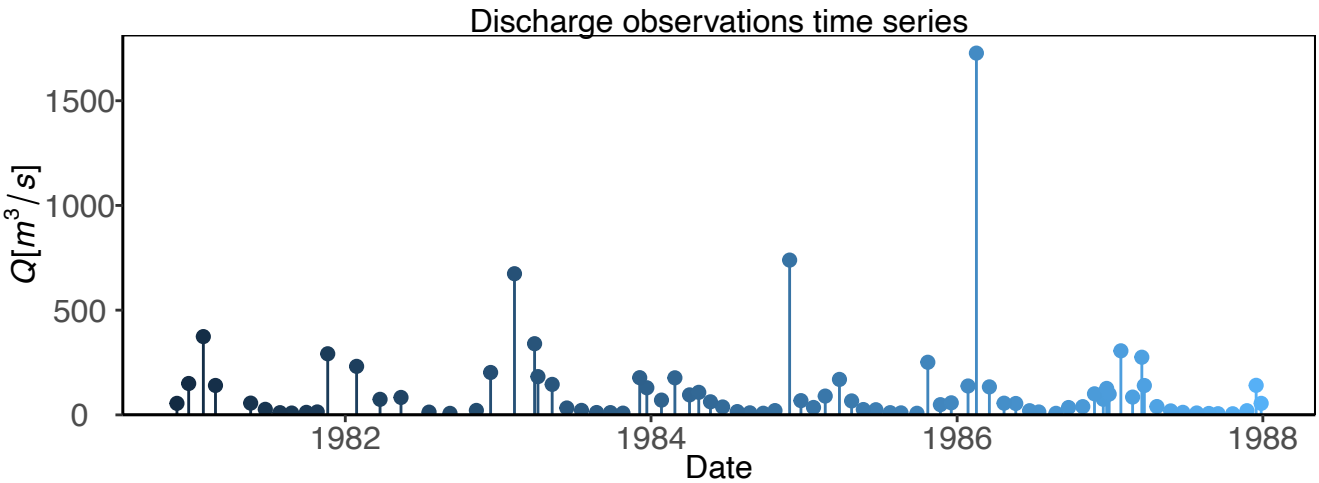
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	12.92	[10.89; 15.05]	10054	1.00
b	2.62	[2.52; 2.73]	10118	1.00
c	–0.46	[–0.53; –0.40]	9992	1.00
σ_ε	0.03	[0.03; 0.03]	9166	1.00

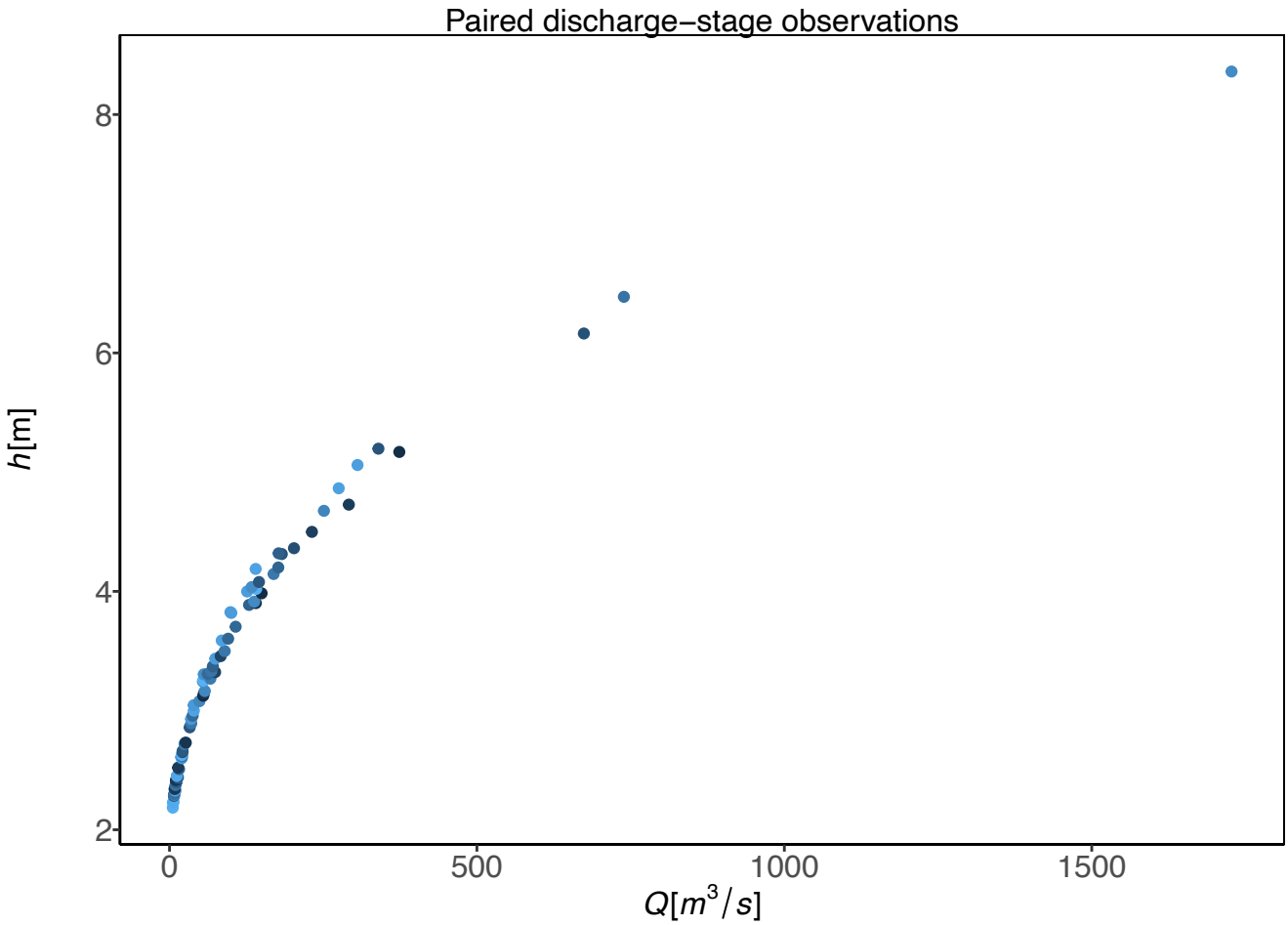
Power−law tournament results for Klamath, Usa



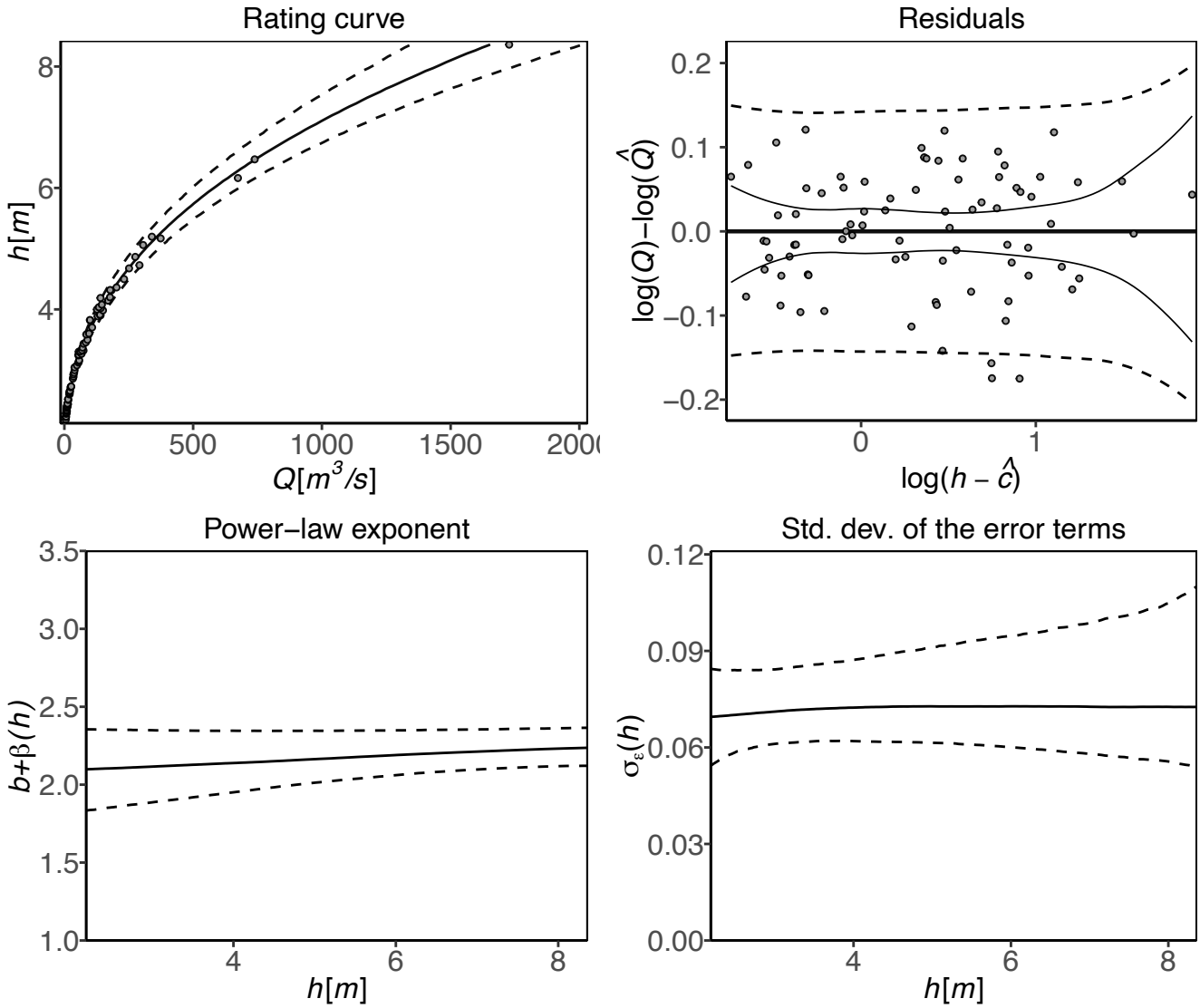
Station name:	Smith
Location:	California, USA
Station number:	11532500
Number of observations:	81
Start date:	1980–11–25
End date:	1987–12–28
Max. discharge (m^3/s):	1727.3
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.03	0.40
GPLM0	0.00	0.41
PLM	2.66	0.11
PLM0	3.12	0.09



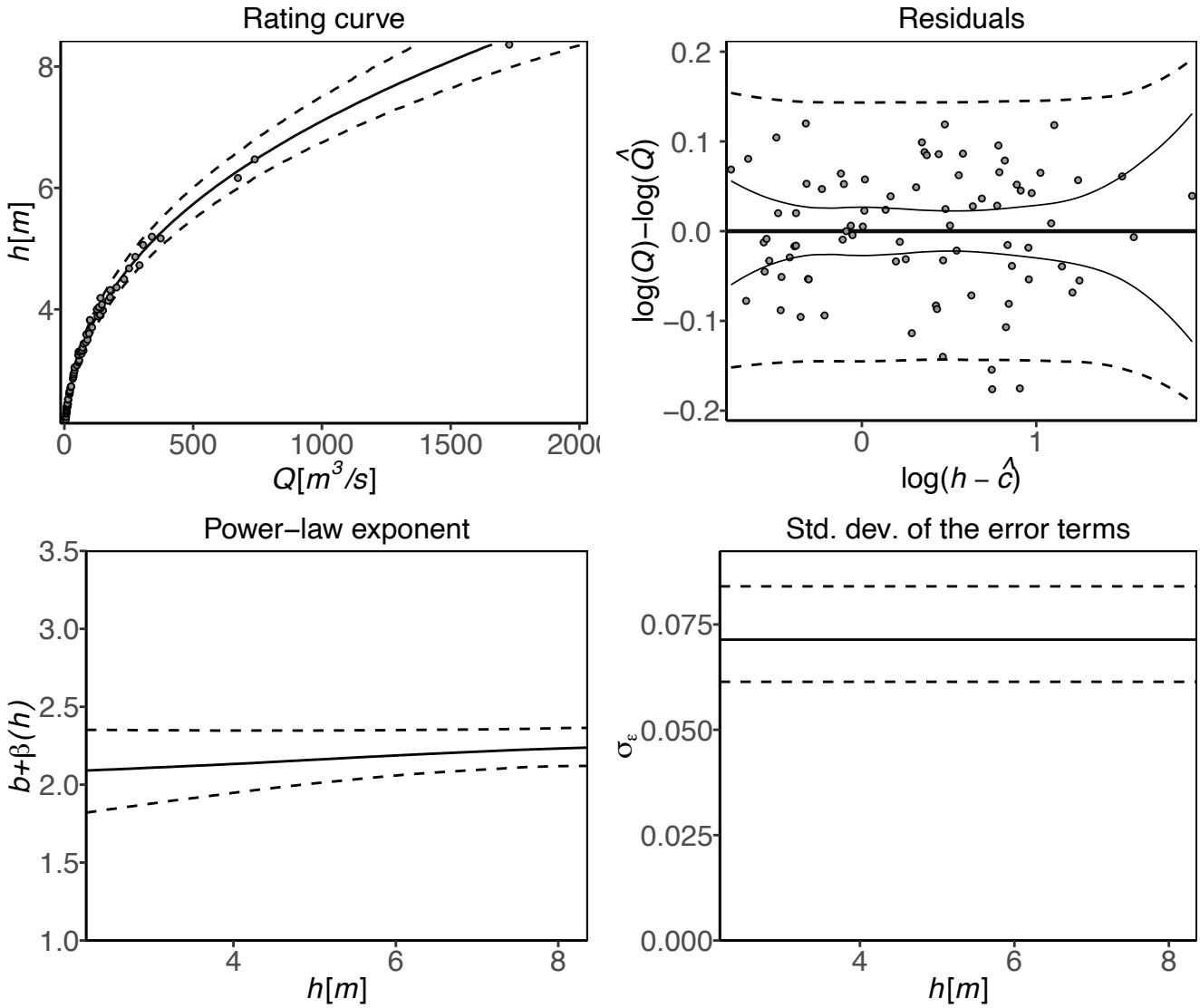


Smith, Usa – GPLM



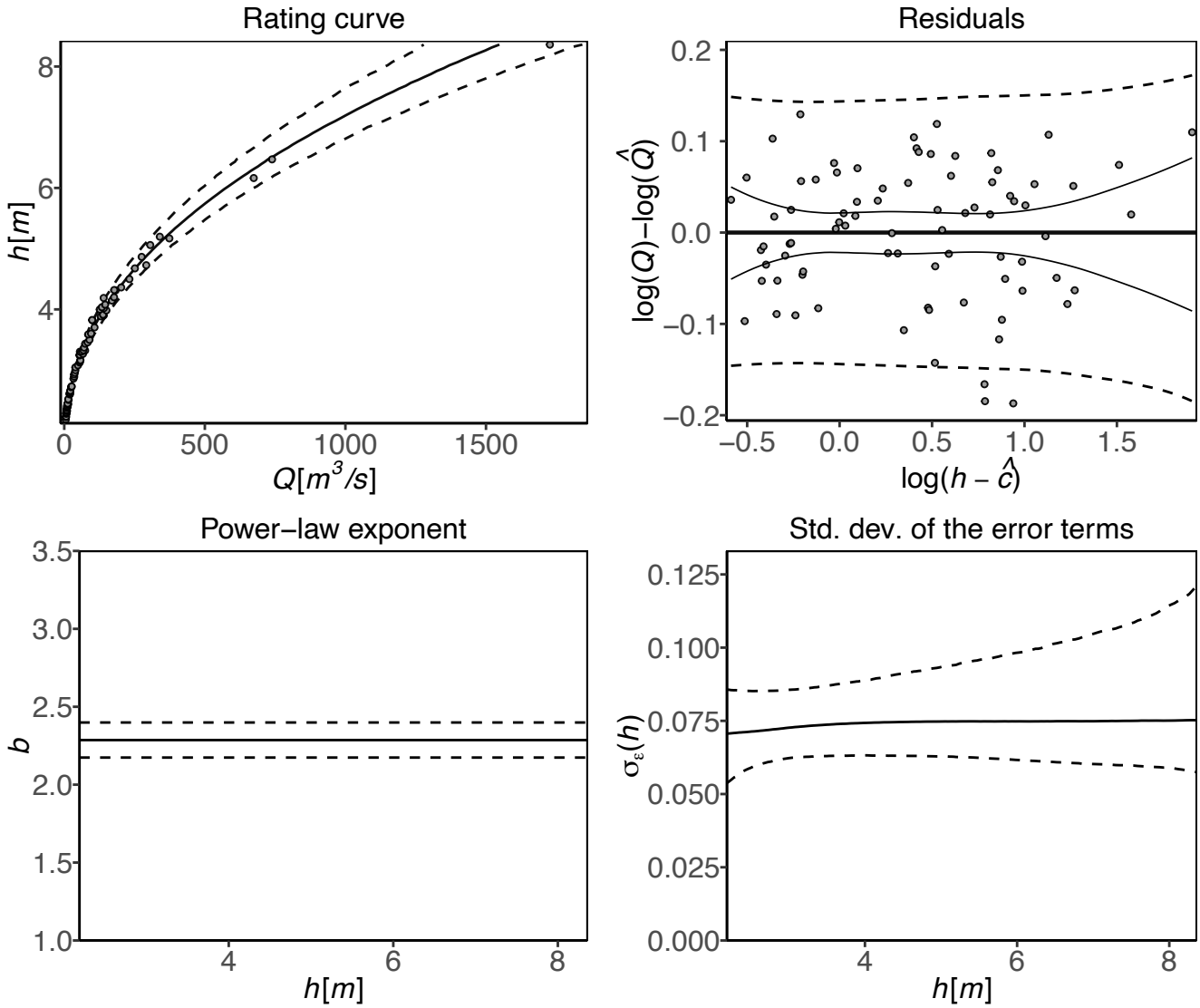
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	23.92	[18.10; 30.42]	1537	1.00
b	1.84	[1.83; 1.84]	9657	1.00
c	1.71	[1.59; 1.82]	1540	1.00
σ_β	0.31	[0.14; 0.76]	2398	1.00
ϕ_β	17.29	[3.95; 1725.26]	908	1.01
σ_η	0.09	[0.00; 0.47]	1567	1.00
η_1	–5.33	[–5.83; –4.94]	2185	1.00
η_2	–4.98	[–6.81; –3.23]	2155	1.00
η_3	–4.66	[–7.25; –2.24]	2325	1.00
η_4	–4.68	[–7.91; –1.58]	2128	1.00
η_5	–4.71	[–8.41; –1.06]	2278	1.00
η_6	–4.74	[–8.85; –0.57]	2090	1.00

Smith, Usa – GPLM0



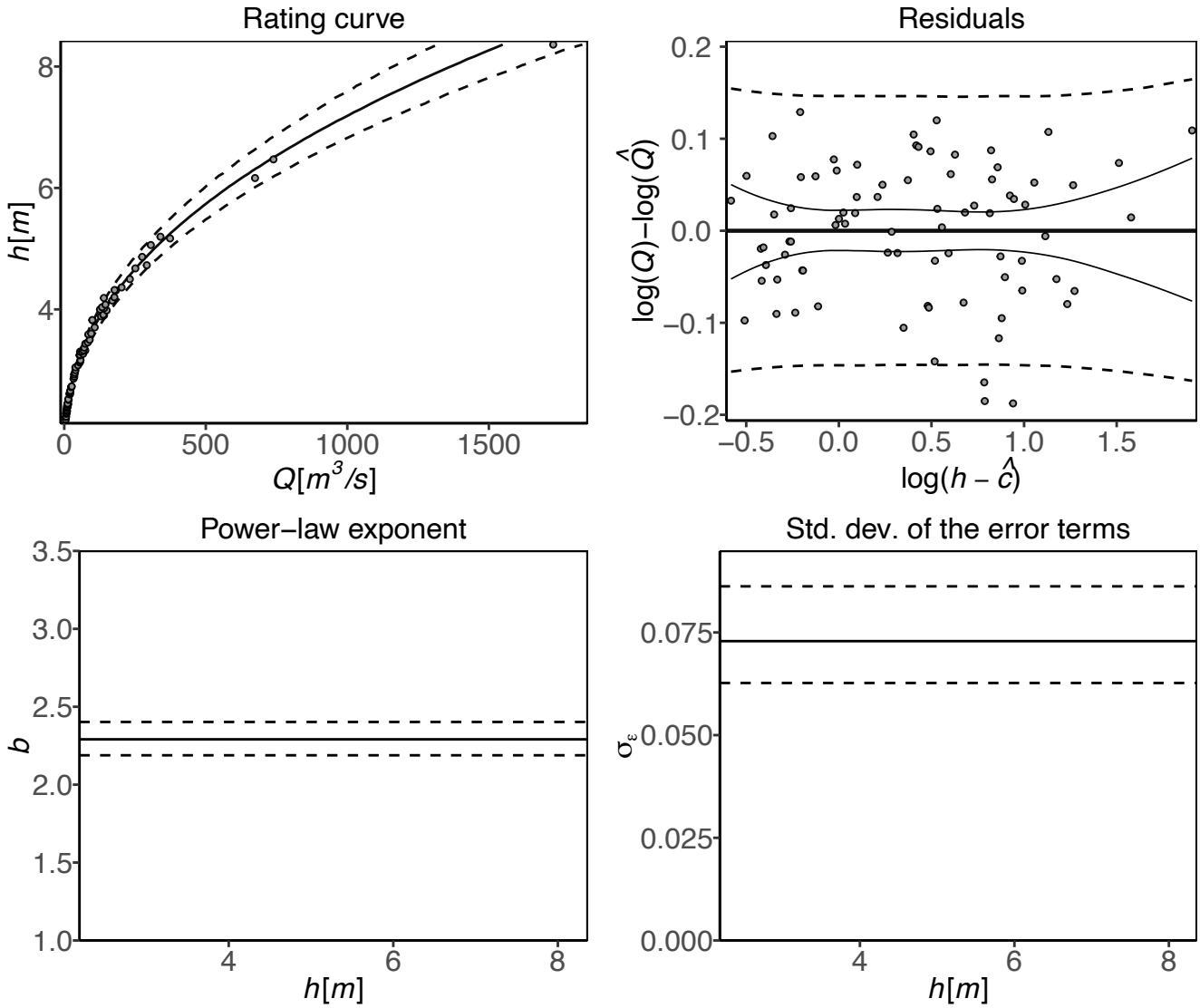
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	24.10	[18.06; 30.53]	2590	1.00
b	1.84	[1.83; 1.84]	10947	1.00
c	1.71	[1.59; 1.82]	2700	1.00
σ_ε	0.07	[0.06; 0.08]	4719	1.00
σ_β	0.56	[0.38; 0.88]	5838	1.00
ϕ_β	16.67	[4.04; 1783.63]	1133	1.00

Smith, Usa – PLM



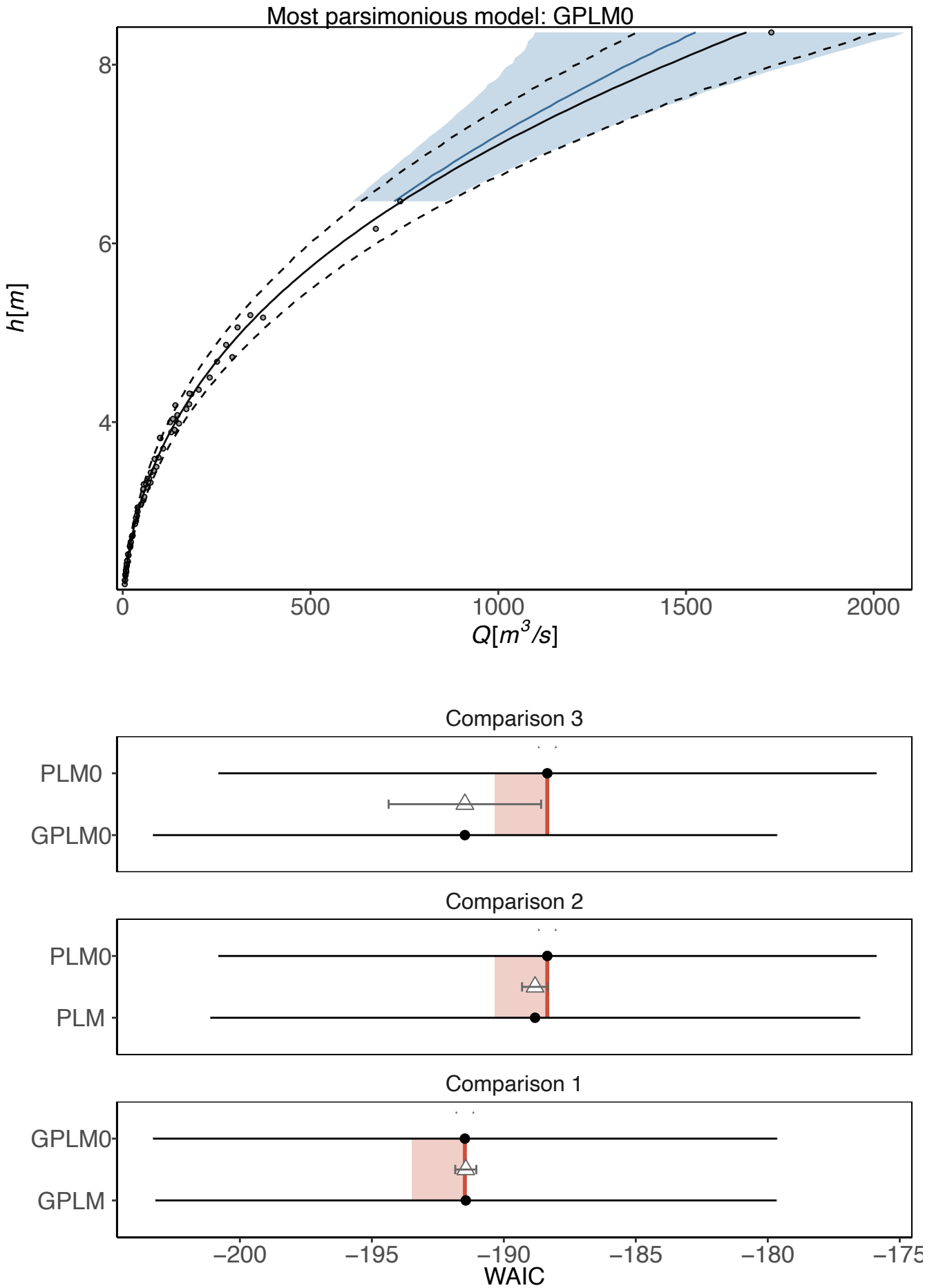
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	19.76	[16.70; 23.07]	2483	1.00
b	2.29	[2.17; 2.40]	2580	1.00
c	1.63	[1.56; 1.69]	2428	1.00
σ_η	0.10	[0.00; 0.48]	1428	1.01
η_1	–5.30	[–5.85; –4.91]	2973	1.00
η_2	–4.91	[–6.73; –3.16]	2157	1.00
η_3	–4.57	[–7.28; –2.17]	2441	1.00
η_4	–4.55	[–7.92; –1.50]	2573	1.00
η_5	–4.45	[–8.39; –0.86]	2649	1.00
η_6	–4.36	[–8.86; –0.39]	2494	1.00

Smith, Usa – PLM0



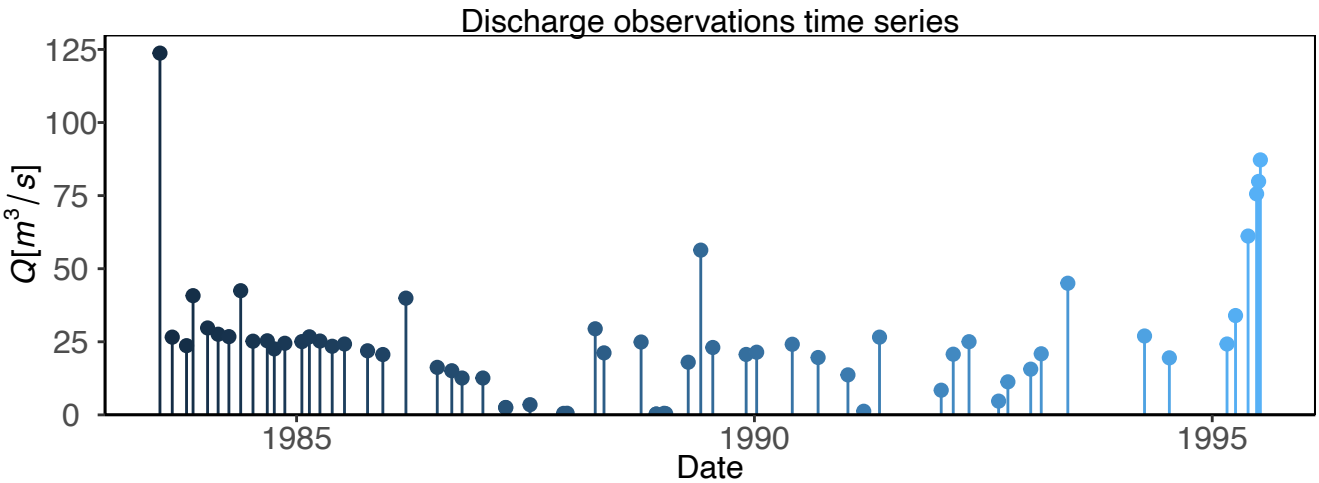
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	19.62	[16.63; 22.71]	9509	1.00
b	2.29	[2.19; 2.40]	9737	1.00
c	1.63	[1.56; 1.69]	9459	1.00
σ_ε	0.07	[0.06; 0.09]	9644	1.00

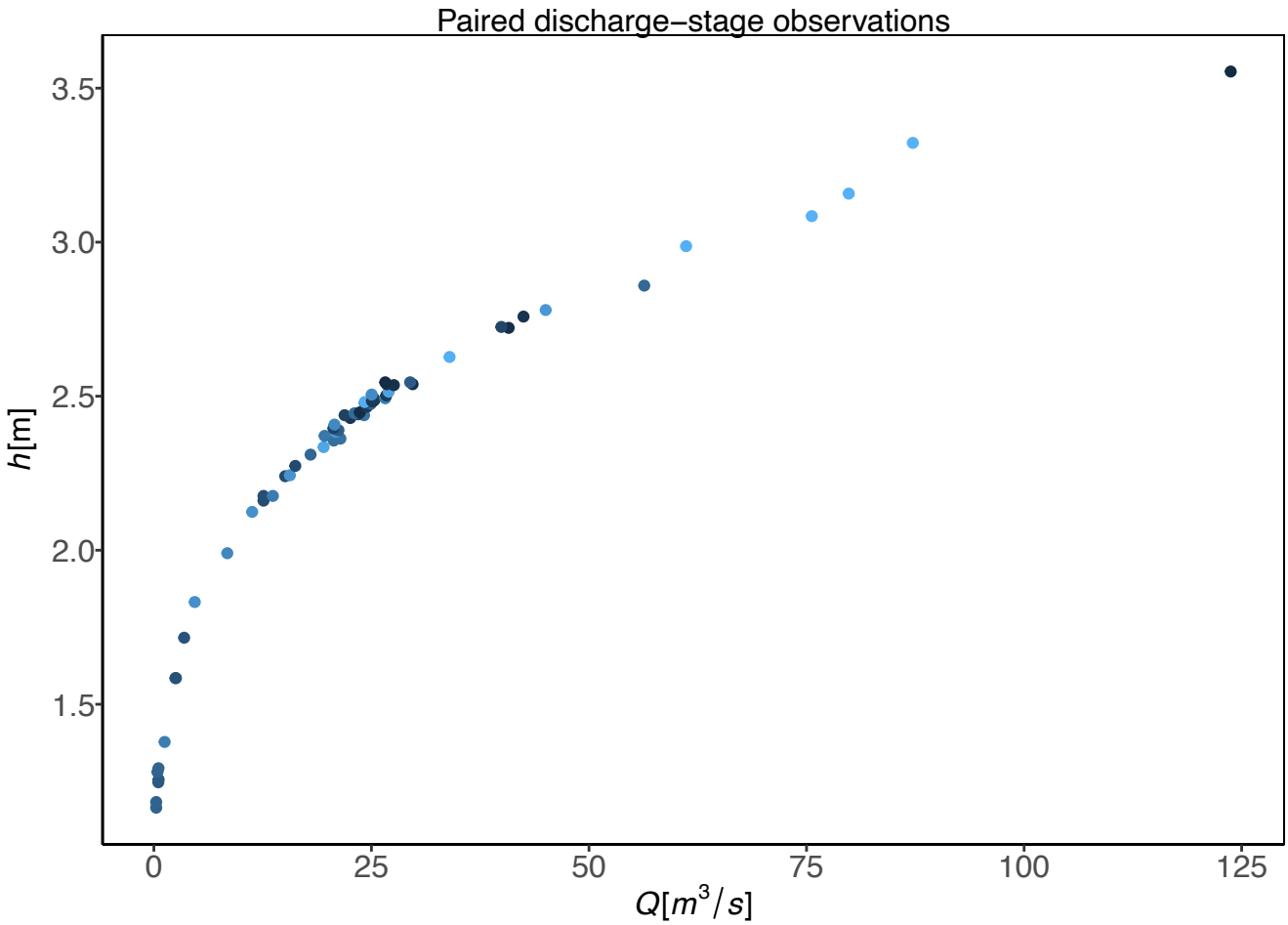
Power−law tournament results for Smith, Usa



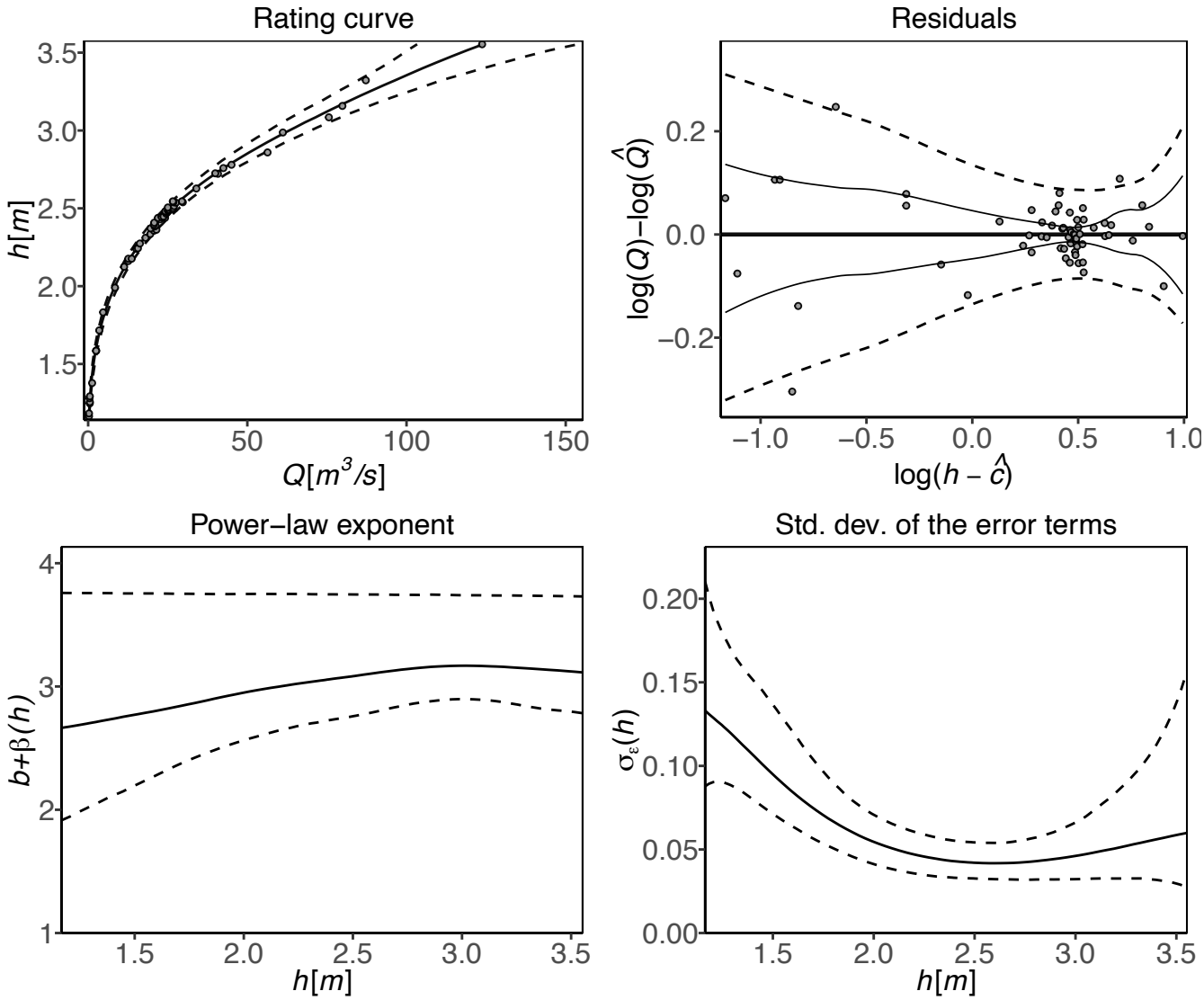
Station name:	Cherry
Location:	California, USA
Station number:	11278400
Number of observations:	62
Start date:	1983–07–06
End date:	1995–07–12
Max. discharge (m^3/s):	123.7
Tournament winner:	PLM

	dWAIC	Akaike weights
GPLM	0.00	0.83
GPLM0	45.93	0.00
PLM	3.14	0.17
PLM0	43.85	0.00



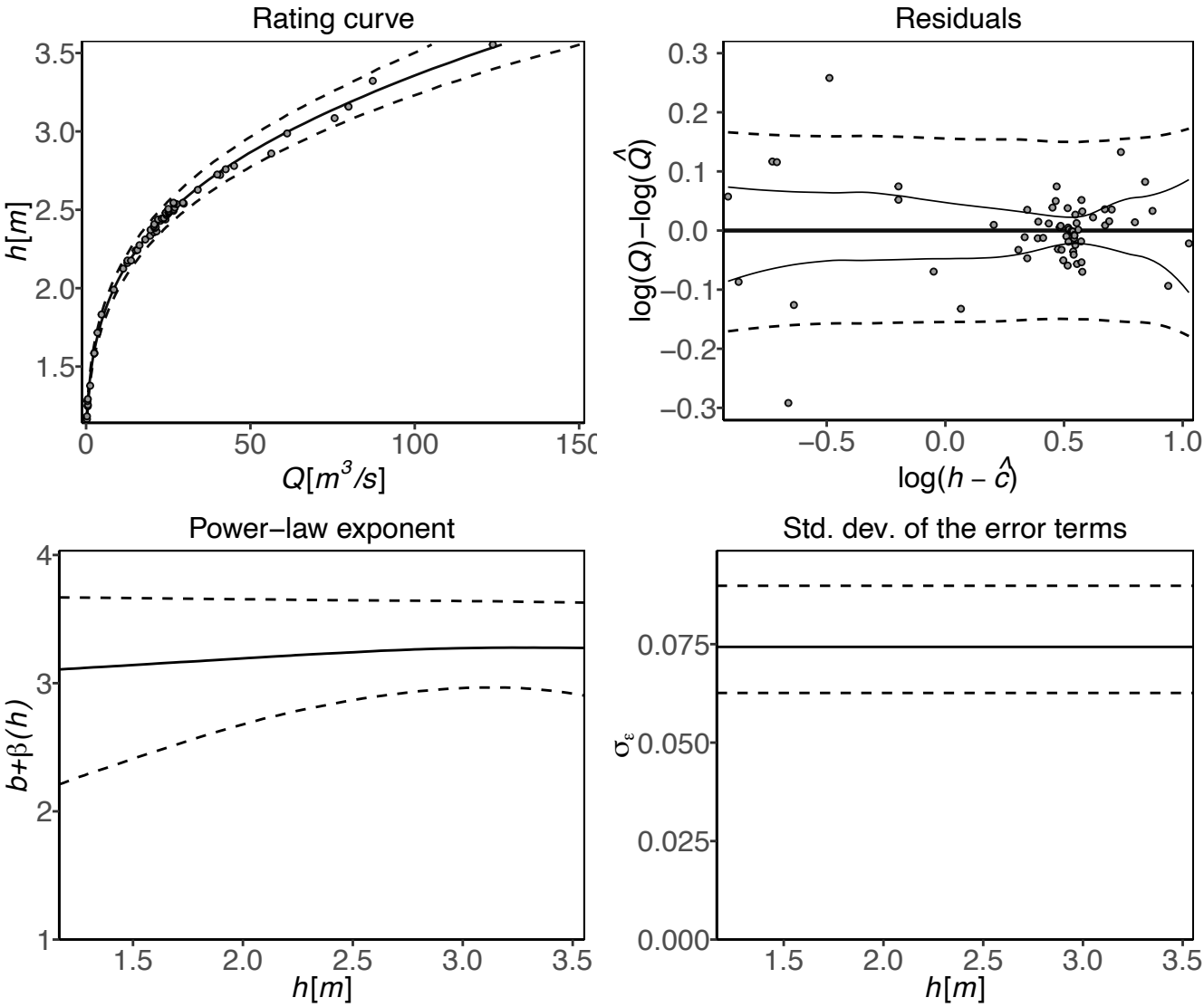


Cherry, Usa – GPLM



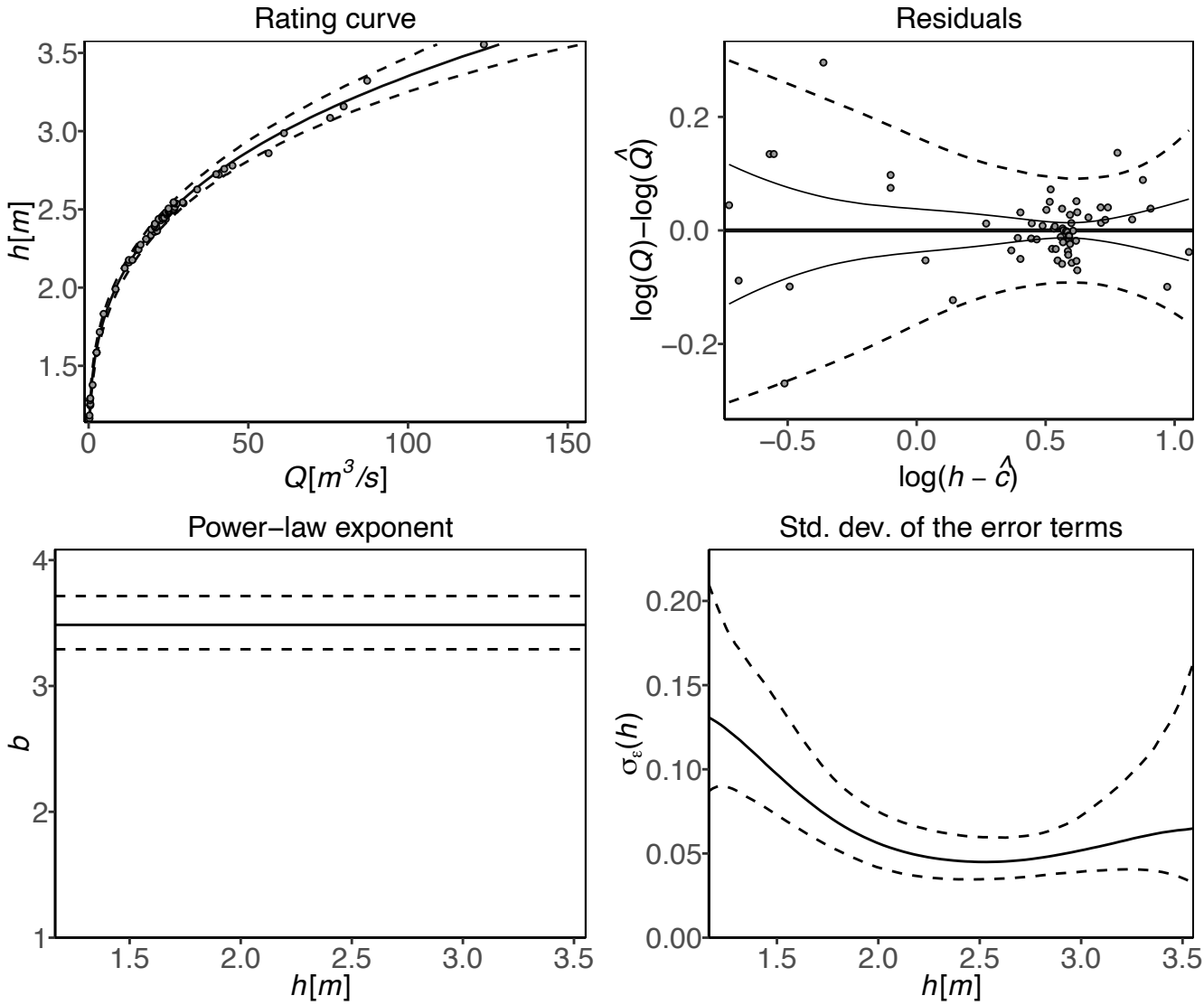
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.64	[2.36; 8.77]	1128	1.02
b	1.84	[1.83; 1.84]	9325	1.00
c	0.85	[0.60; 1.02]	1171	1.02
σ_β	0.68	[0.38; 1.30]	1964	1.01
ϕ_β	2.98	[0.88; 255.75]	779	1.05
σ_η	0.74	[0.39; 1.33]	1714	1.00
η_1	–4.03	[–4.87; –3.12]	1923	1.00
η_2	–4.60	[–6.28; –3.27]	1700	1.00
η_3	–6.81	[–8.73; –5.41]	2184	1.00
η_4	–7.50	[–9.87; –5.93]	2132	1.00
η_5	–6.47	[–9.67; –4.45]	1906	1.00
η_6	–6.21	[–9.64; –3.74]	2161	1.00

Cherry, Usa – GPLM0



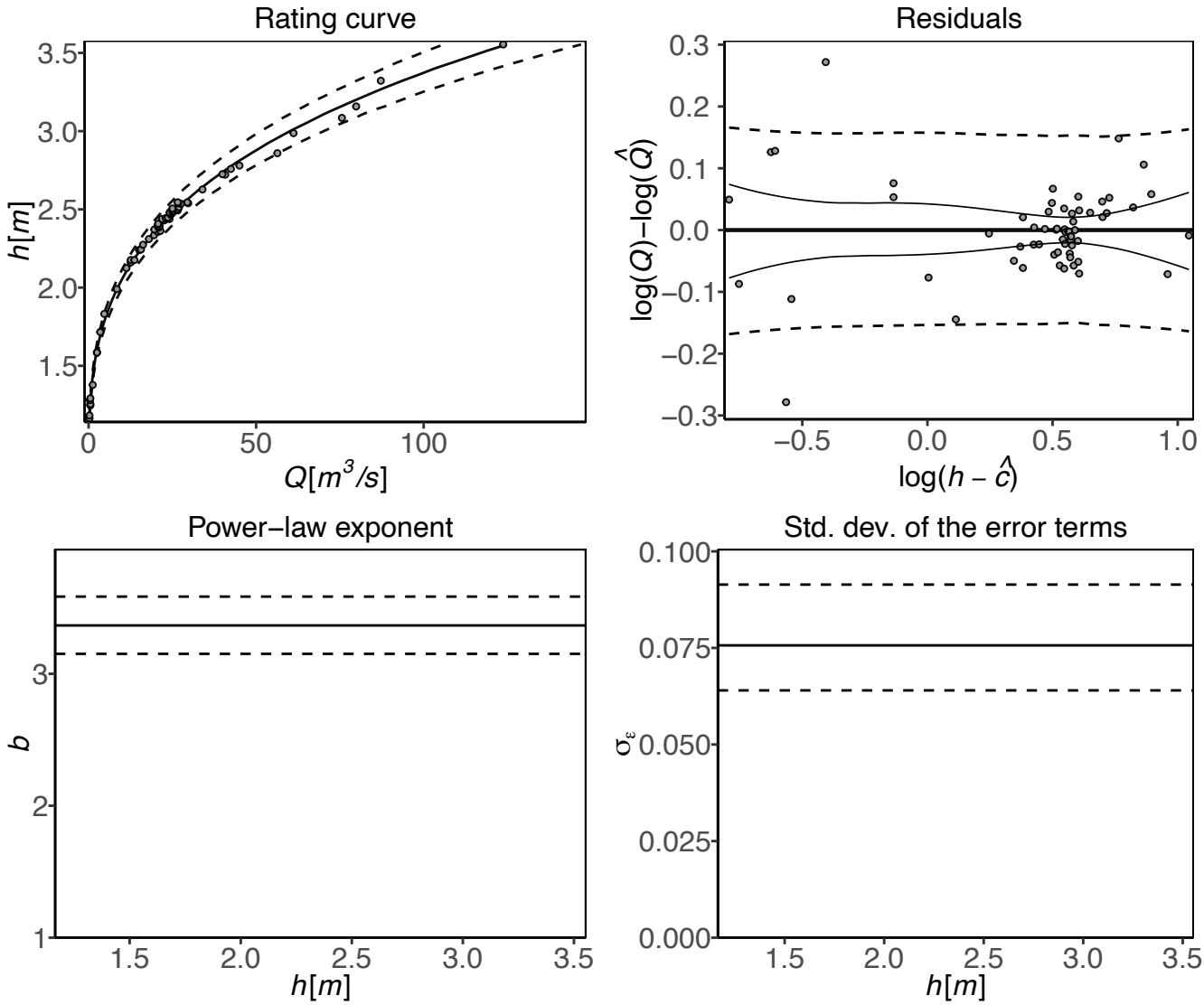
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.39	[2.67; 7.40]	2038	1.00
b	1.84	[1.83; 1.84]	10192	1.00
c	0.76	[0.63; 0.95]	2028	1.00
σ_ε	0.07	[0.06; 0.09]	4210	1.00
σ_β	0.85	[0.64; 1.14]	4066	1.00
ϕ_β	7.93	[1.68; 1168.74]	880	1.02

Cherry, Usa – PLM



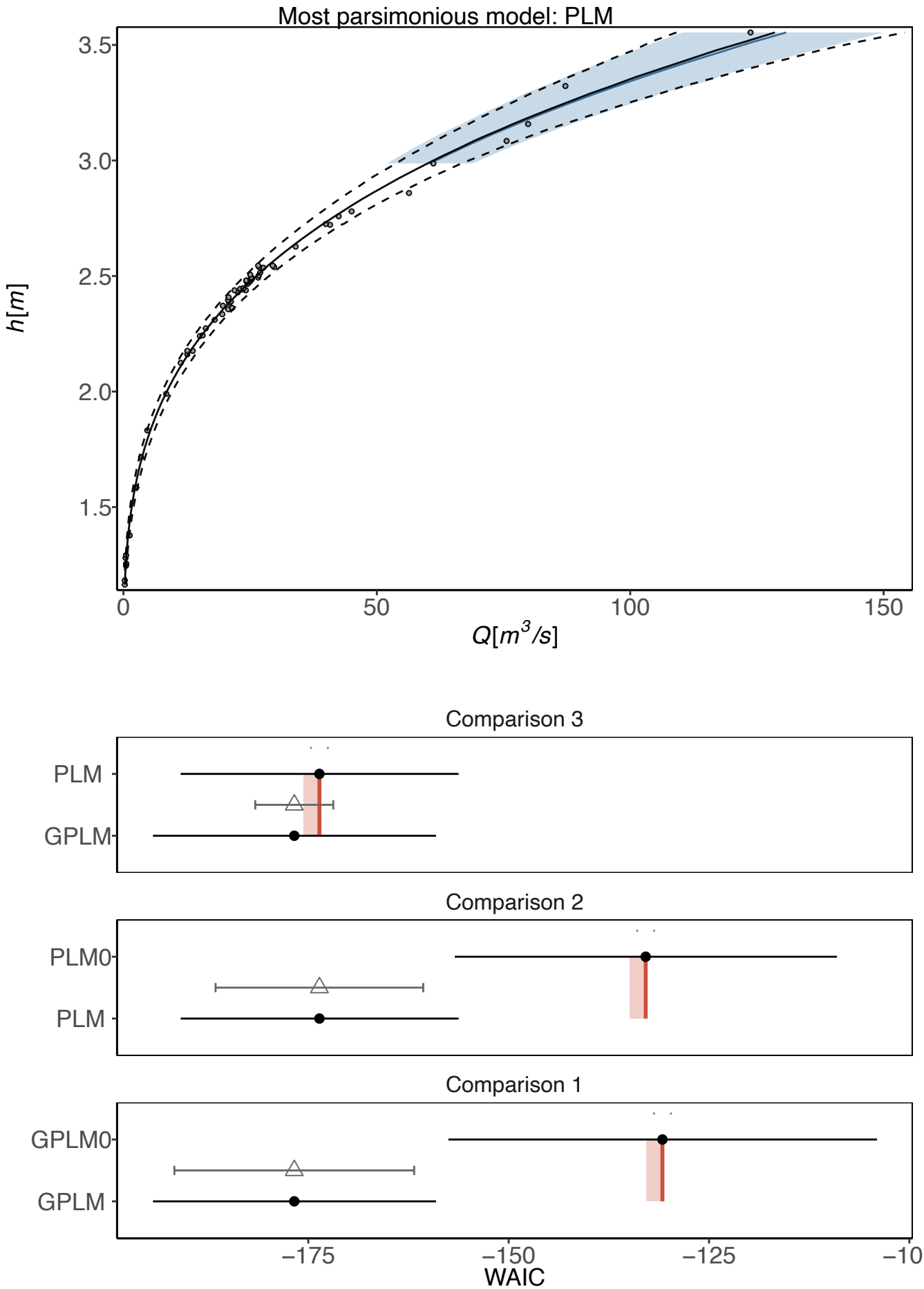
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.26	[2.45; 4.09]	2808	1.00
b	3.49	[3.29; 3.71]	2918	1.00
c	0.68	[0.61; 0.74]	2776	1.00
σ_η	0.74	[0.37; 1.32]	1873	1.00
η_1	–4.07	[–4.88; –3.12]	2353	1.01
η_2	–4.48	[–6.14; –3.19]	2030	1.00
η_3	–6.77	[–8.67; –5.43]	2485	1.00
η_4	–7.22	[–9.44; –5.77]	2519	1.00
η_5	–6.07	[–9.00; –4.20]	2283	1.00
η_6	–5.95	[–9.17; –3.60]	2714	1.00

Cherry, Usa – PLM0



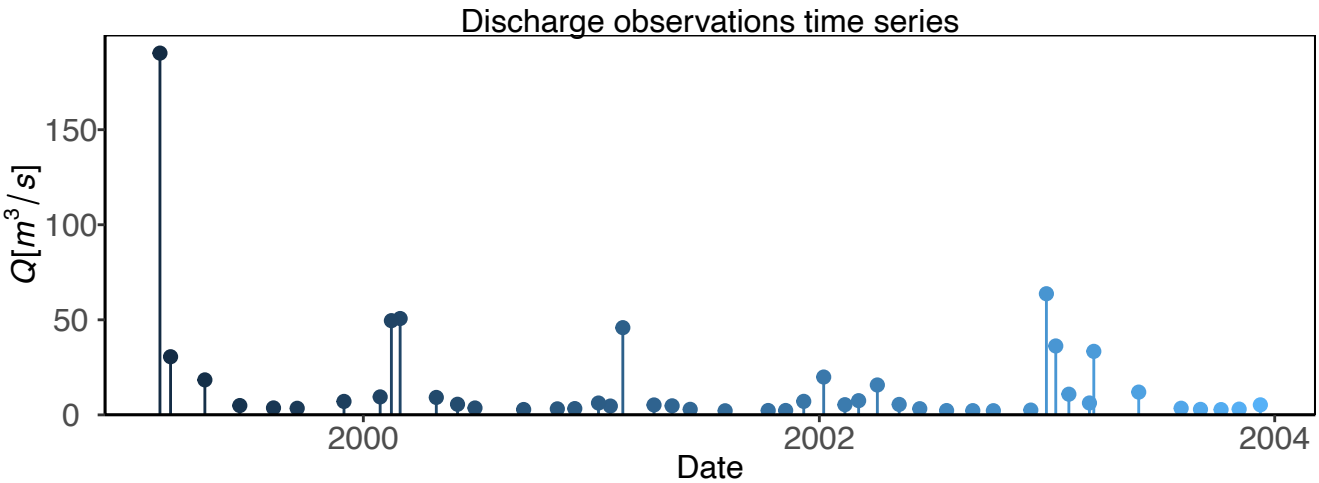
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.71	[2.88; 4.67]	9814	1.00
b	3.37	[3.15; 3.59]	9913	1.00
c	0.71	[0.65; 0.77]	9635	1.00
σ_ε	0.08	[0.06; 0.09]	9975	1.00

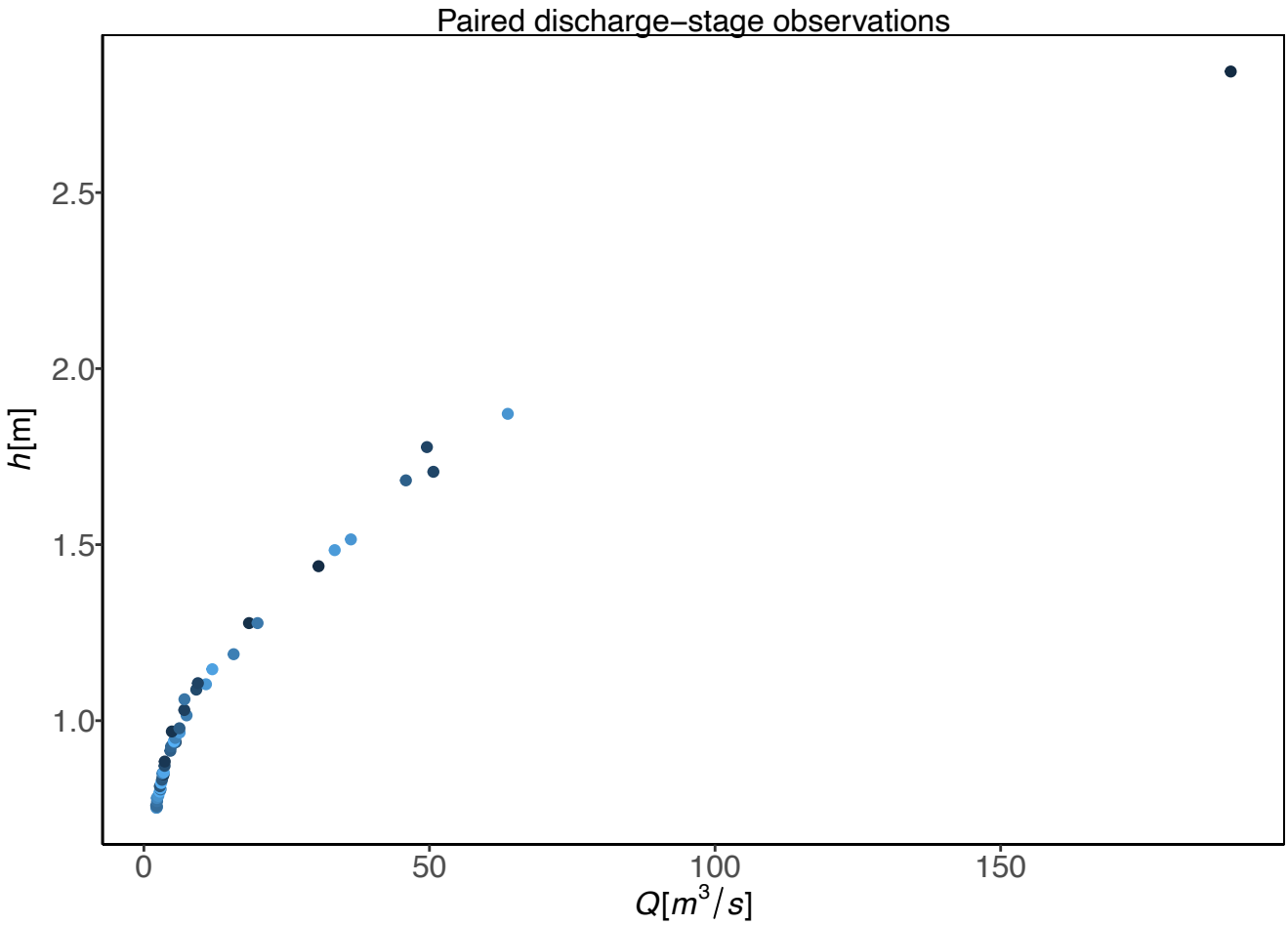
Power−law tournament results for Cherry, Usa



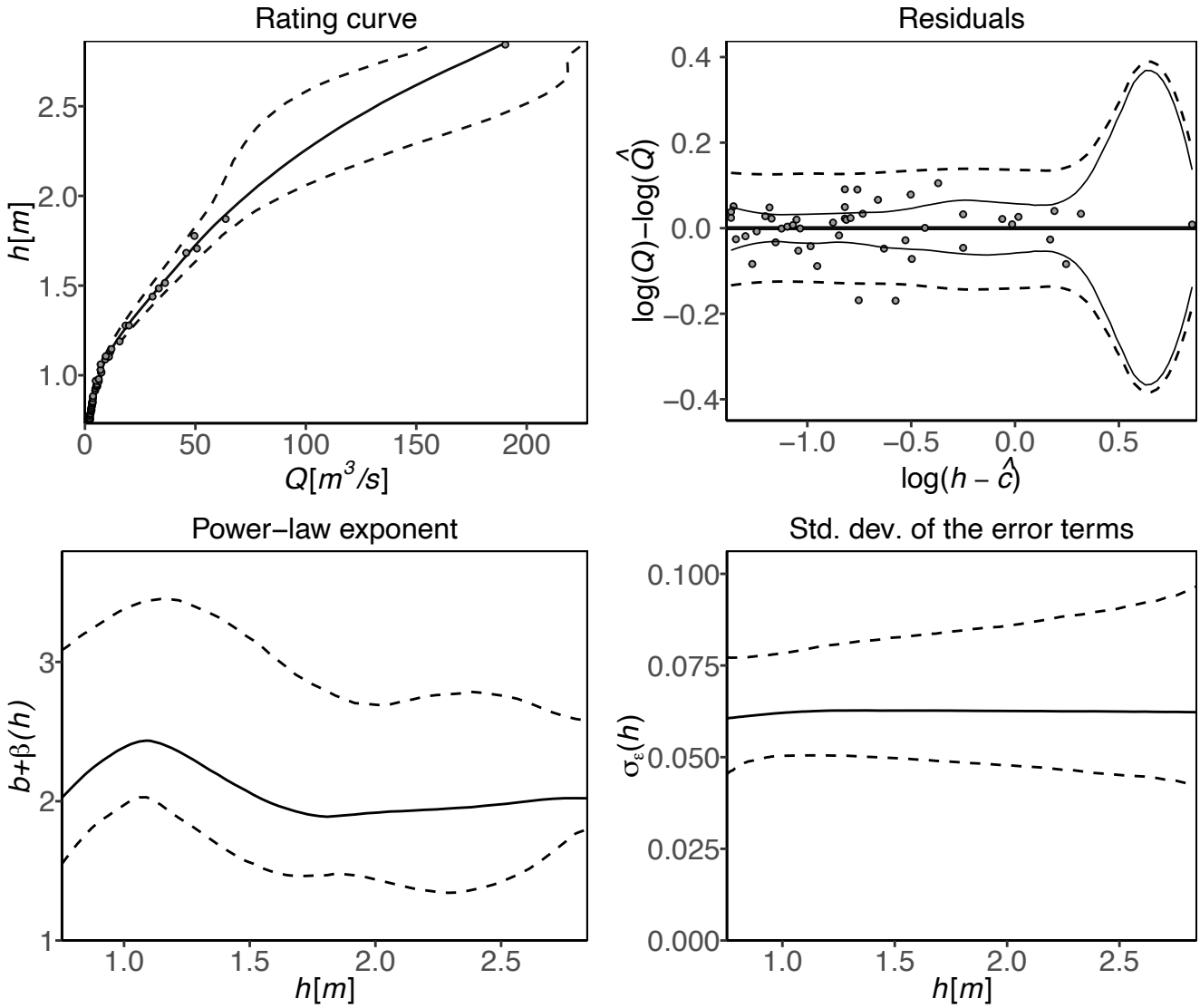
Station name:	Deer
Location:	California, USA
Station number:	11383500
Number of observations:	47
Start date:	1999–02–09
End date:	2003–12–09
Max. discharge (m^3/s):	190.3
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.53
GPLM0	0.23	0.47
PLM	28.20	0.00
PLM0	31.30	0.00



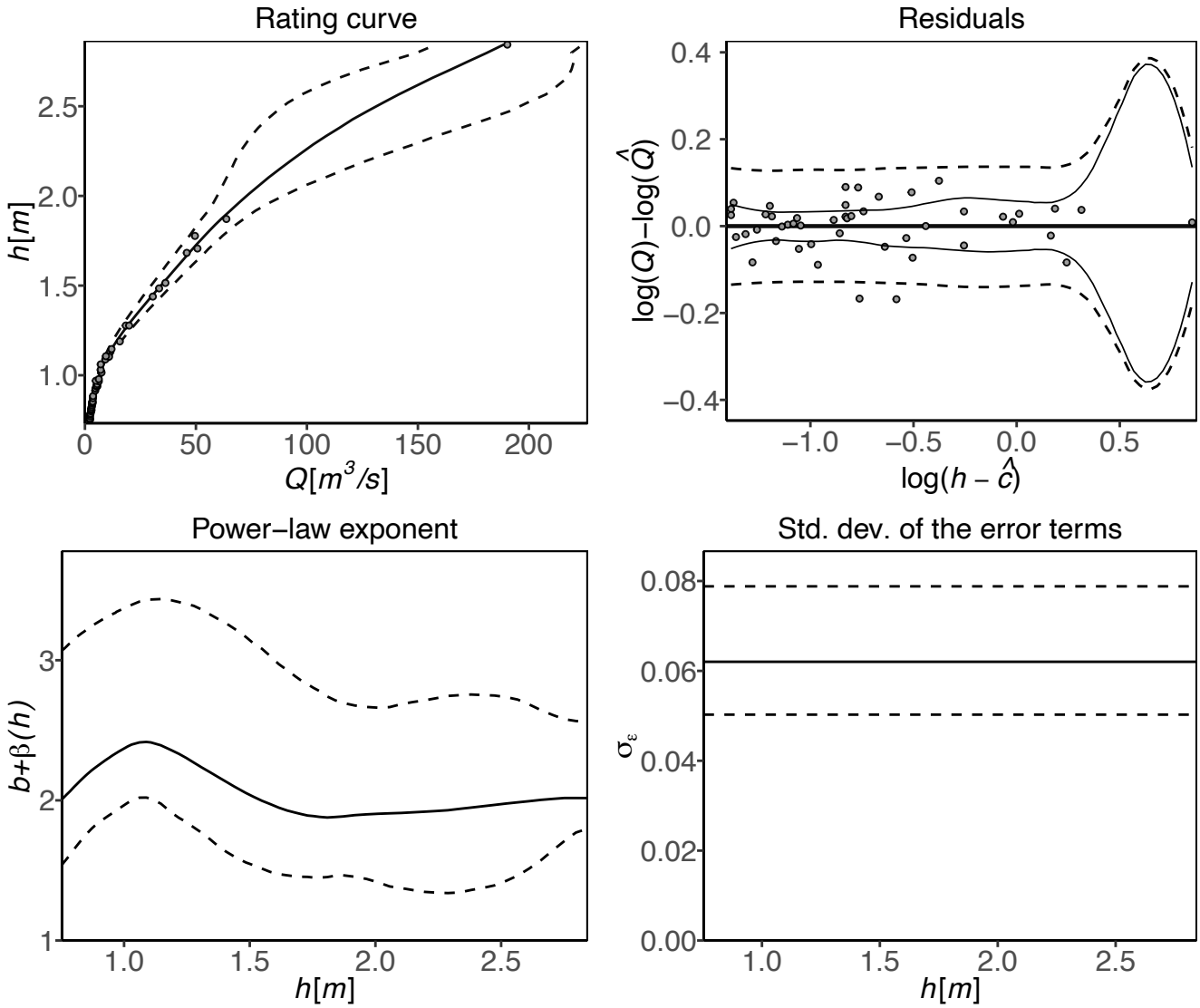


Deer, Usa – GPLM



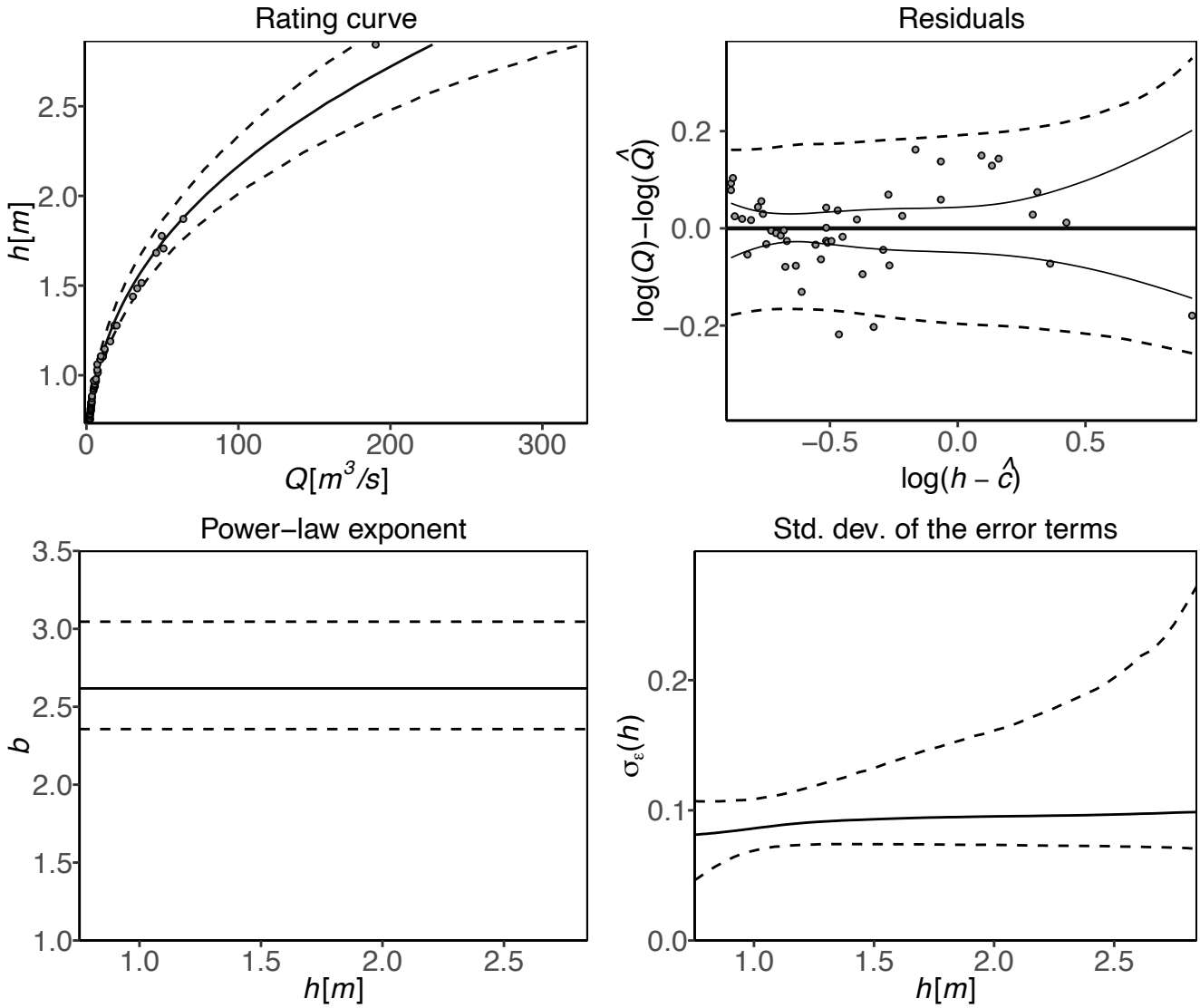
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.06	[16.21; 41.81]	1955	1.00
b	1.84	[1.83; 1.84]	9977	1.00
c	0.50	[0.24; 0.60]	1871	1.00
σ_β	0.37	[0.16; 0.92]	2377	1.00
ϕ_β	0.47	[0.16; 1.15]	2016	1.00
σ_η	0.09	[0.00; 0.51]	1560	1.00
η_1	–5.61	[–6.18; –5.12]	1744	1.00
η_2	–5.25	[–7.17; –3.41]	2316	1.00
η_3	–5.22	[–7.88; –2.63]	2279	1.00
η_4	–5.27	[–8.56; –2.00]	2216	1.00
η_5	–5.31	[–9.00; –1.51]	2200	1.00
η_6	–5.32	[–9.50; –1.02]	2277	1.00

Deer, Usa – GPLM0



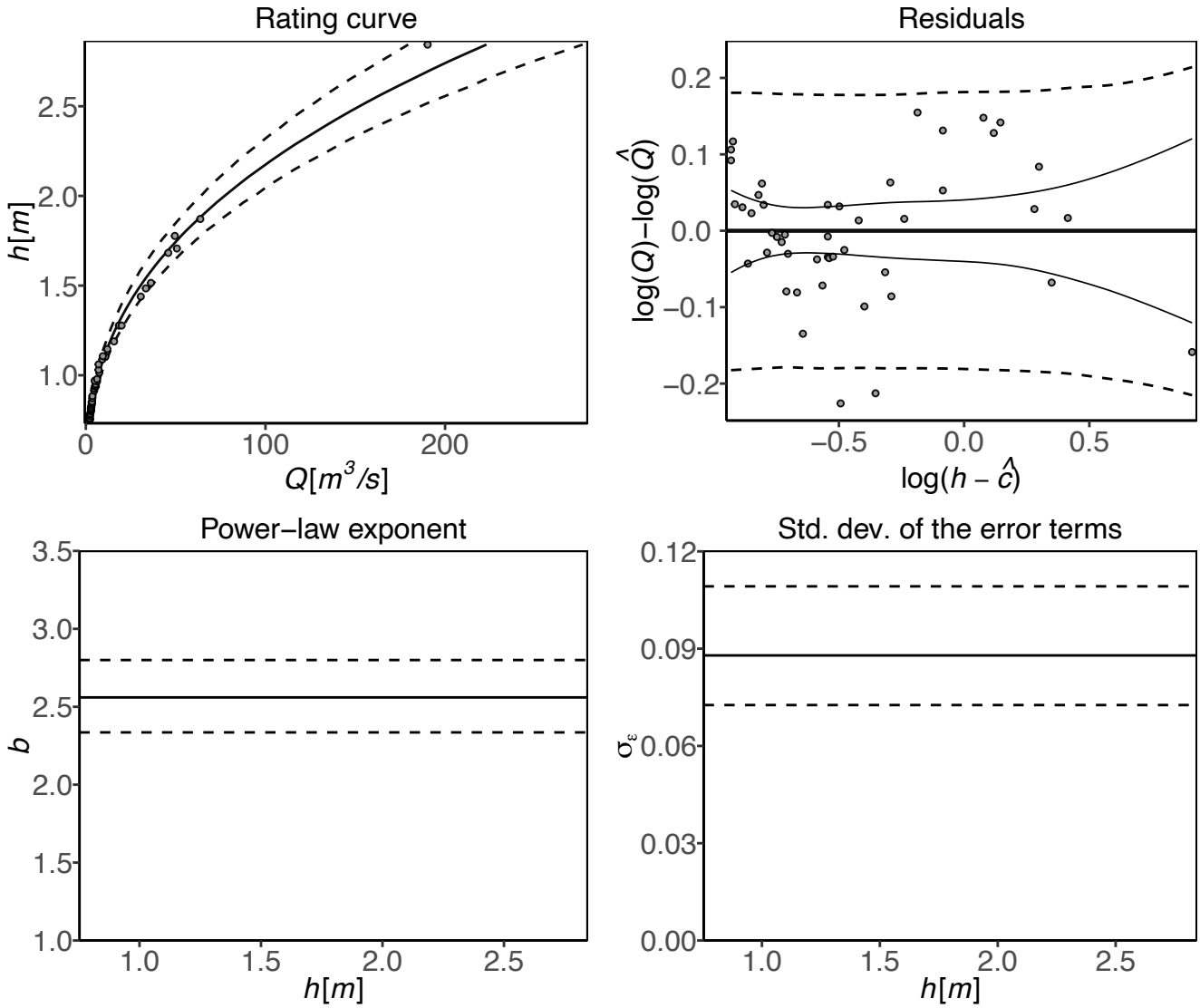
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.31	[16.68; 42.14]	3861	1.00
b	1.84	[1.83; 1.84]	14418	1.00
c	0.50	[0.24; 0.61]	4085	1.00
σ_ε	0.06	[0.05; 0.08]	4823	1.00
σ_β	0.60	[0.40; 0.96]	5325	1.00
ϕ_β	0.45	[0.16; 1.14]	5008	1.00

Deer, Usa – PLM



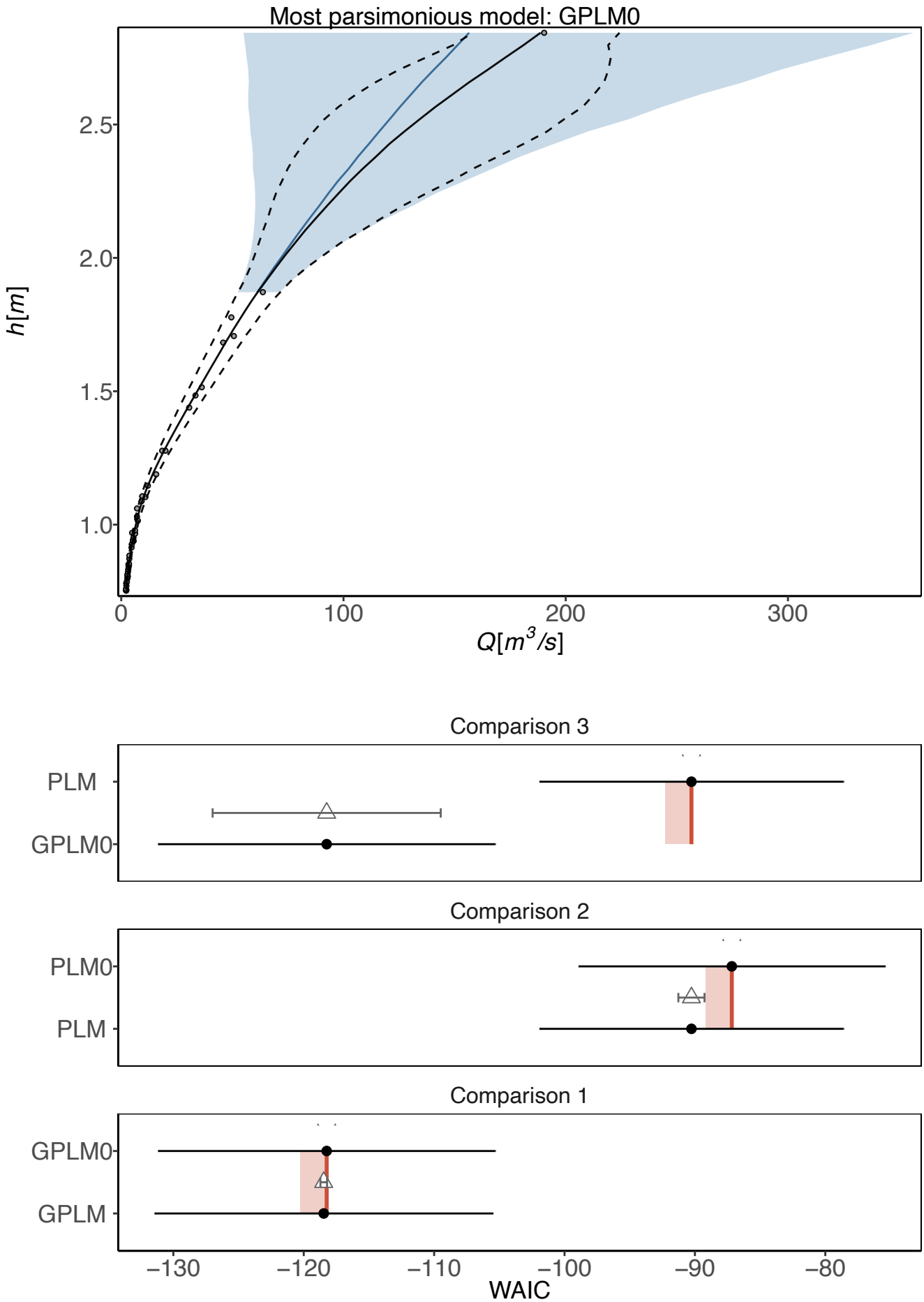
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	20.59	[14.26; 25.39]	2069	1.01
b	2.62	[2.36; 3.05]	2189	1.01
c	0.34	[0.22; 0.42]	2083	1.01
σ_η	0.17	[0.01; 0.77]	845	1.04
η_1	–5.02	[–6.14; –4.47]	1917	1.01
η_2	–4.41	[–6.28; –2.72]	1432	1.01
η_3	–3.86	[–6.89; –1.54]	1691	1.01
η_4	–3.68	[–7.16; –0.63]	2156	1.00
η_5	–3.42	[–7.49; 0.12]	2105	1.01
η_6	–3.09	[–7.90; 0.82]	2095	1.00

Deer, Usa – PLM0



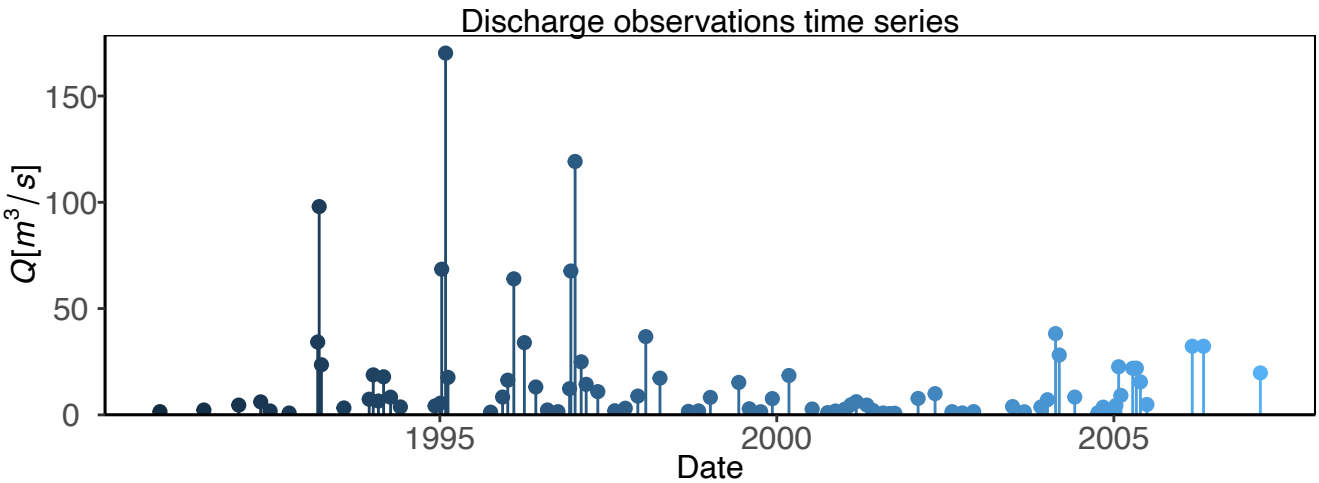
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	21.72	[17.63; 25.79]	9426	1.00
b	2.56	[2.34; 2.80]	9570	1.00
c	0.36	[0.29; 0.42]	9308	1.00
σ_ε	0.09	[0.07; 0.11]	9763	1.00

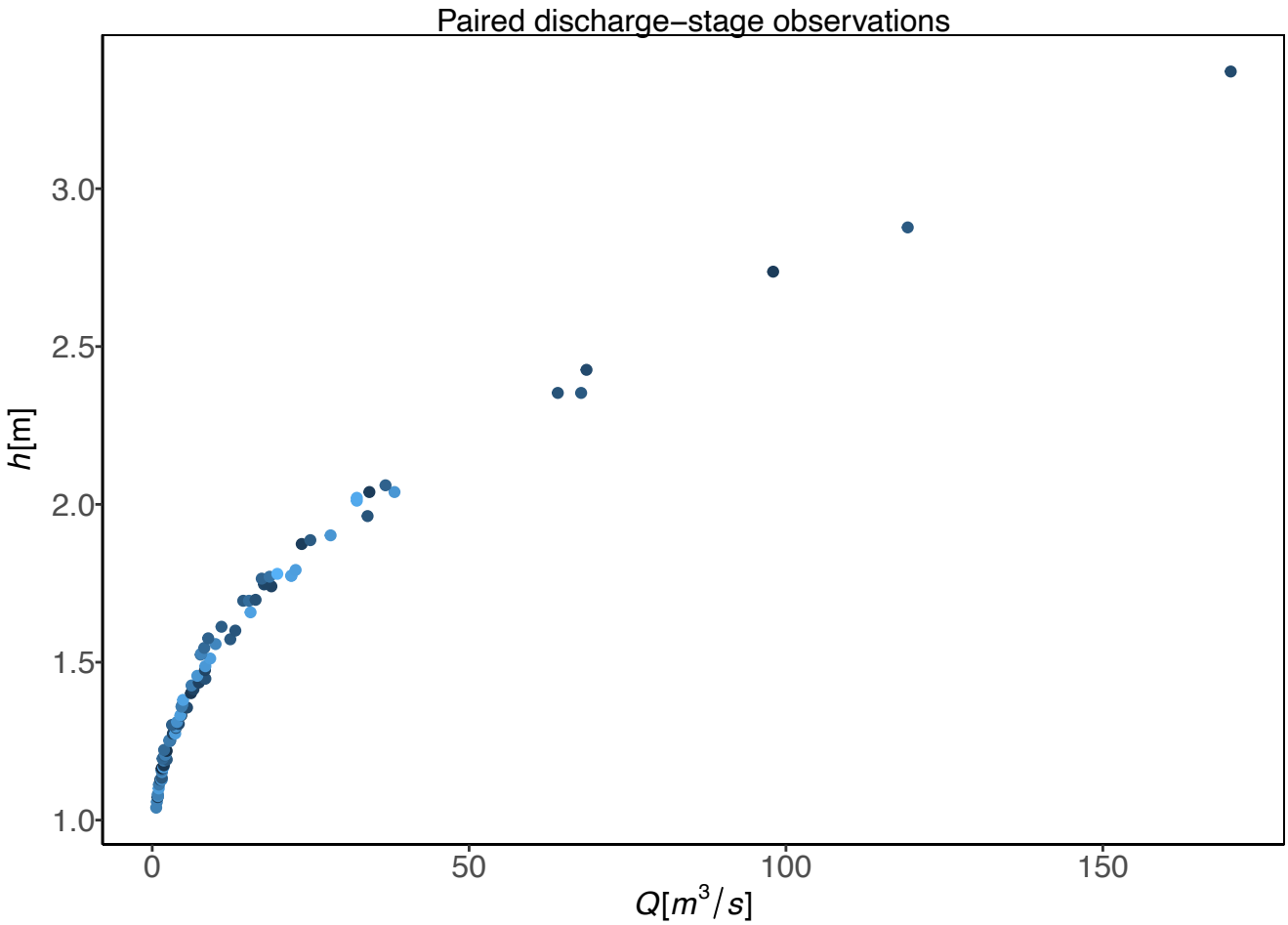
Power−law tournament results for Deer, Usa



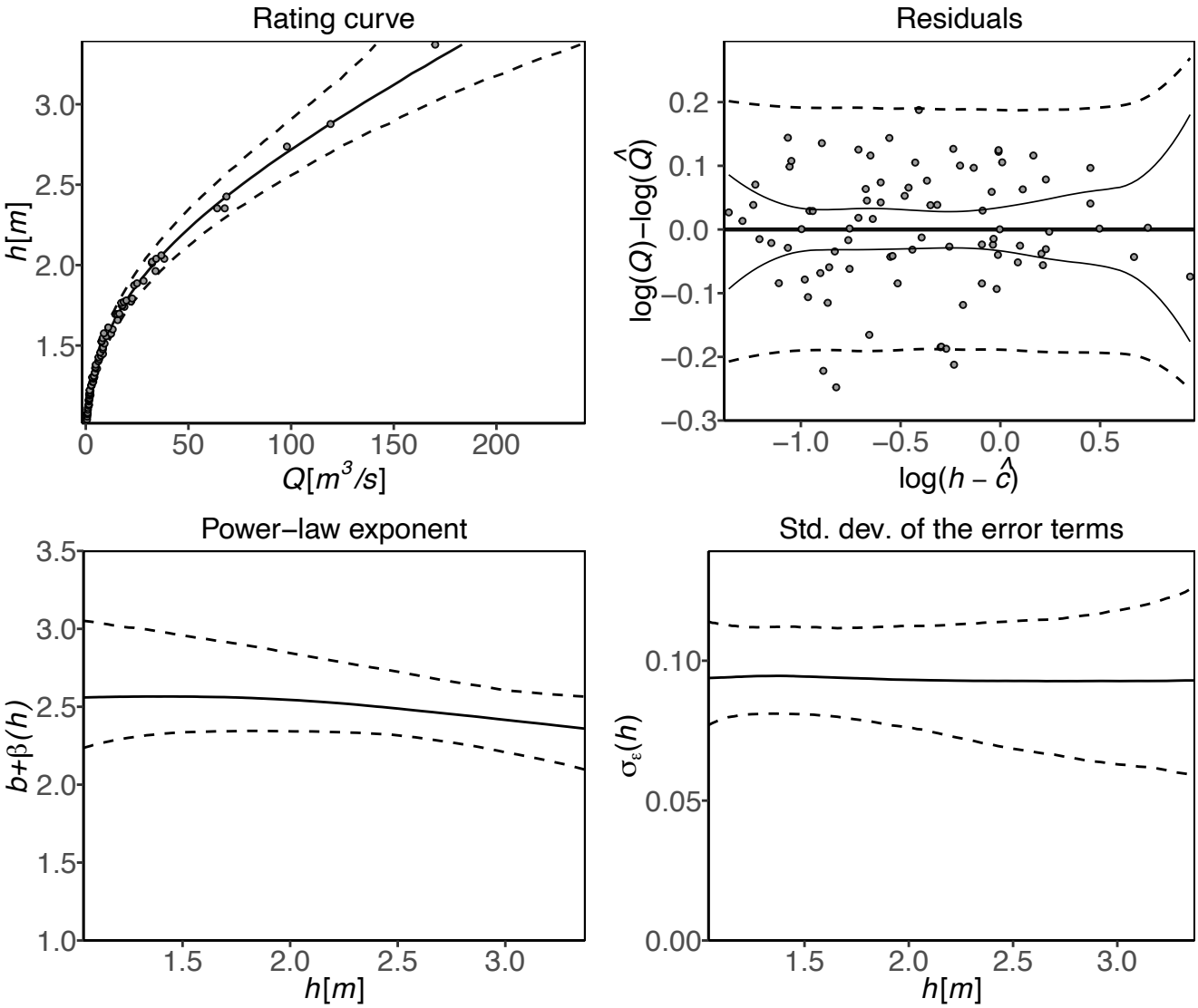
Station name:	Indian
Location:	California, USA
Station number:	11521500
Number of observations:	84
Start date:	1990–11–06
End date:	2007–03–06
Max. discharge (m^3/s):	170.2
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.48
GPLM0	0.09	0.46
PLM	5.15	0.04
PLM0	5.34	0.03



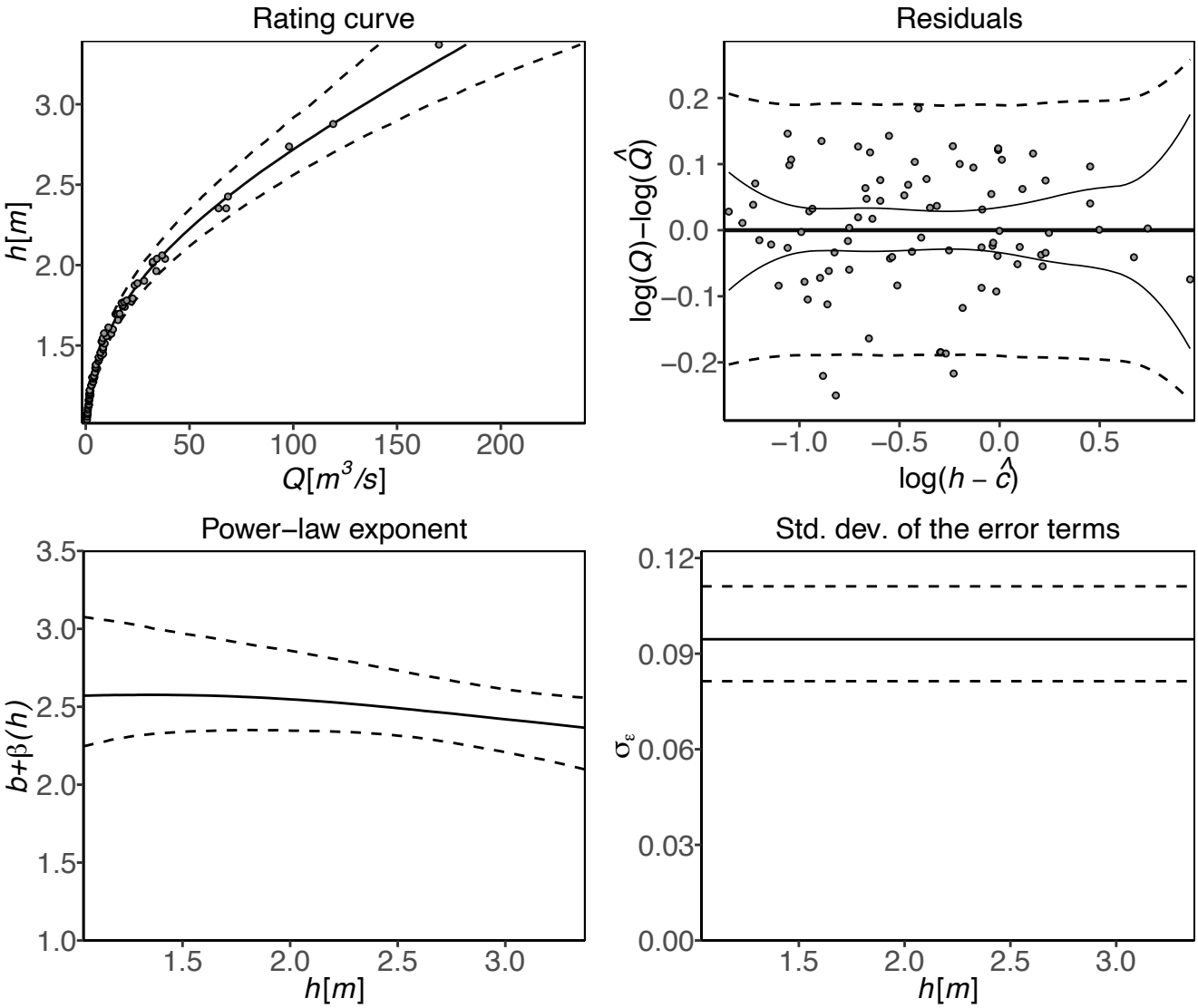


Indian, Usa – GPLM



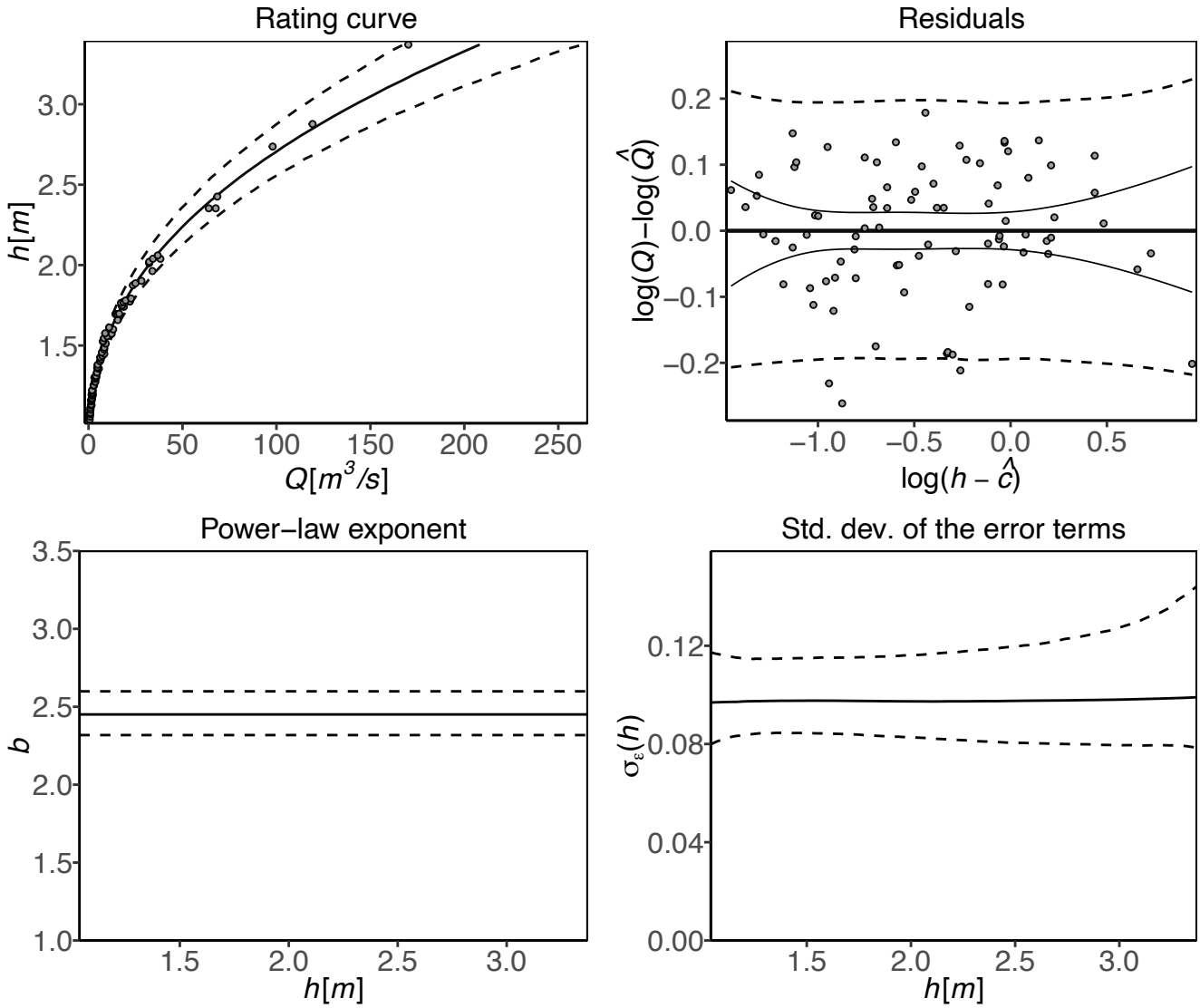
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	19.82	[15.34; 23.33]	1657	1.01
b	1.84	[1.83; 1.84]	9375	1.00
c	0.78	[0.68; 0.85]	1562	1.01
σ_β	0.47	[0.23; 1.03]	2062	1.01
ϕ_β	4.81	[1.22; 90549.78]	747	1.10
σ_η	0.09	[0.00; 0.47]	1361	1.00
η_1	–4.73	[–5.13; –4.34]	1845	1.00
η_2	–4.57	[–6.40; –2.76]	2162	1.00
η_3	–4.81	[–7.27; –2.25]	2198	1.00
η_4	–5.00	[–8.18; –1.68]	2191	1.00
η_5	–4.98	[–8.67; –1.30]	2210	1.00
η_6	–4.98	[–9.18; –0.88]	2203	1.00

Indian, Usa – GPLM0



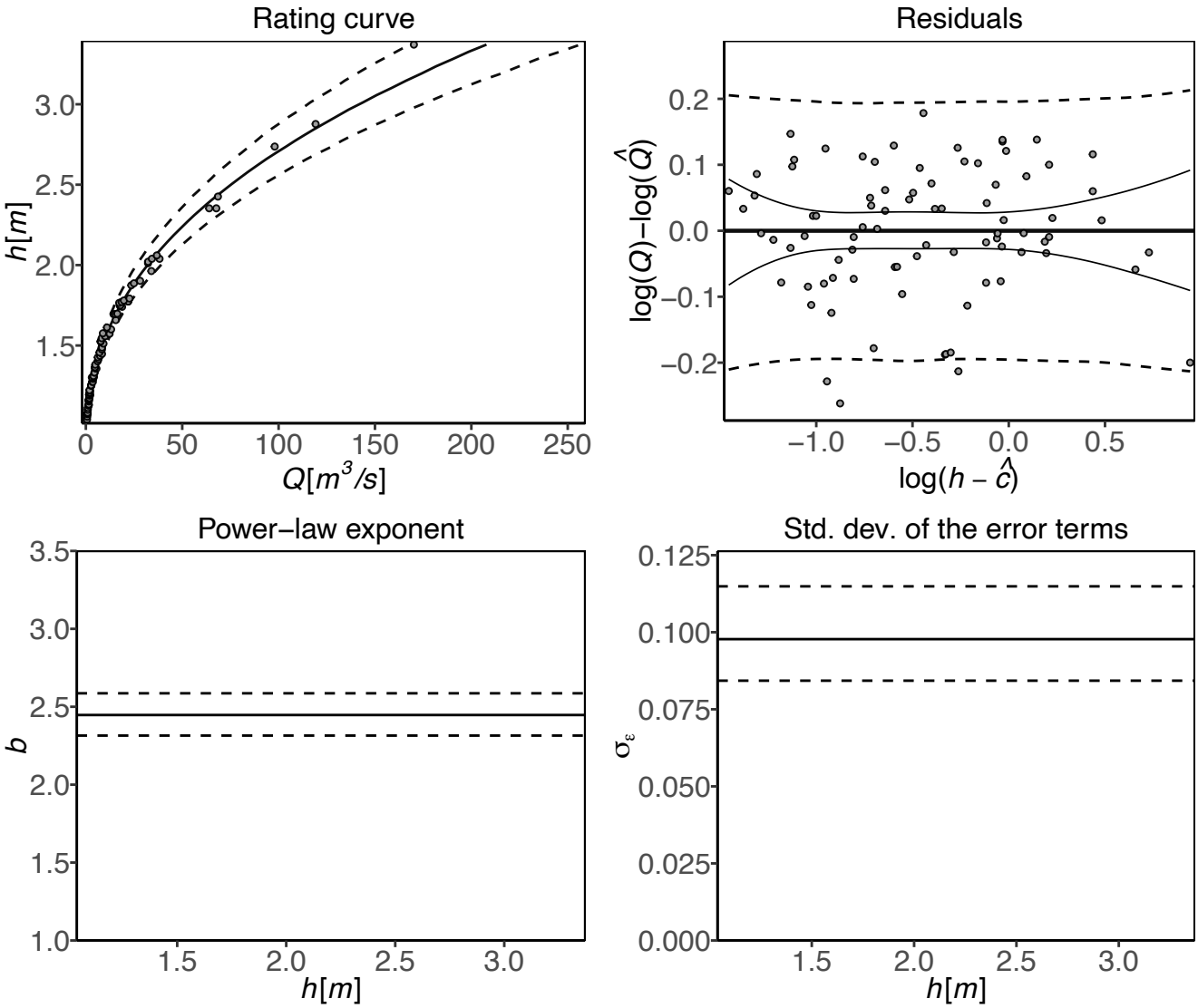
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	19.72	[15.13; 23.22]	3333	1.00
b	1.84	[1.83; 1.84]	12666	1.00
c	0.78	[0.68; 0.85]	2994	1.00
σ_ε	0.09	[0.08; 0.11]	4780	1.00
σ_β	0.68	[0.48; 1.01]	4991	1.00
ϕ_β	4.70	[1.25; 1393.56]	896	1.04

Indian, Usa – PLM



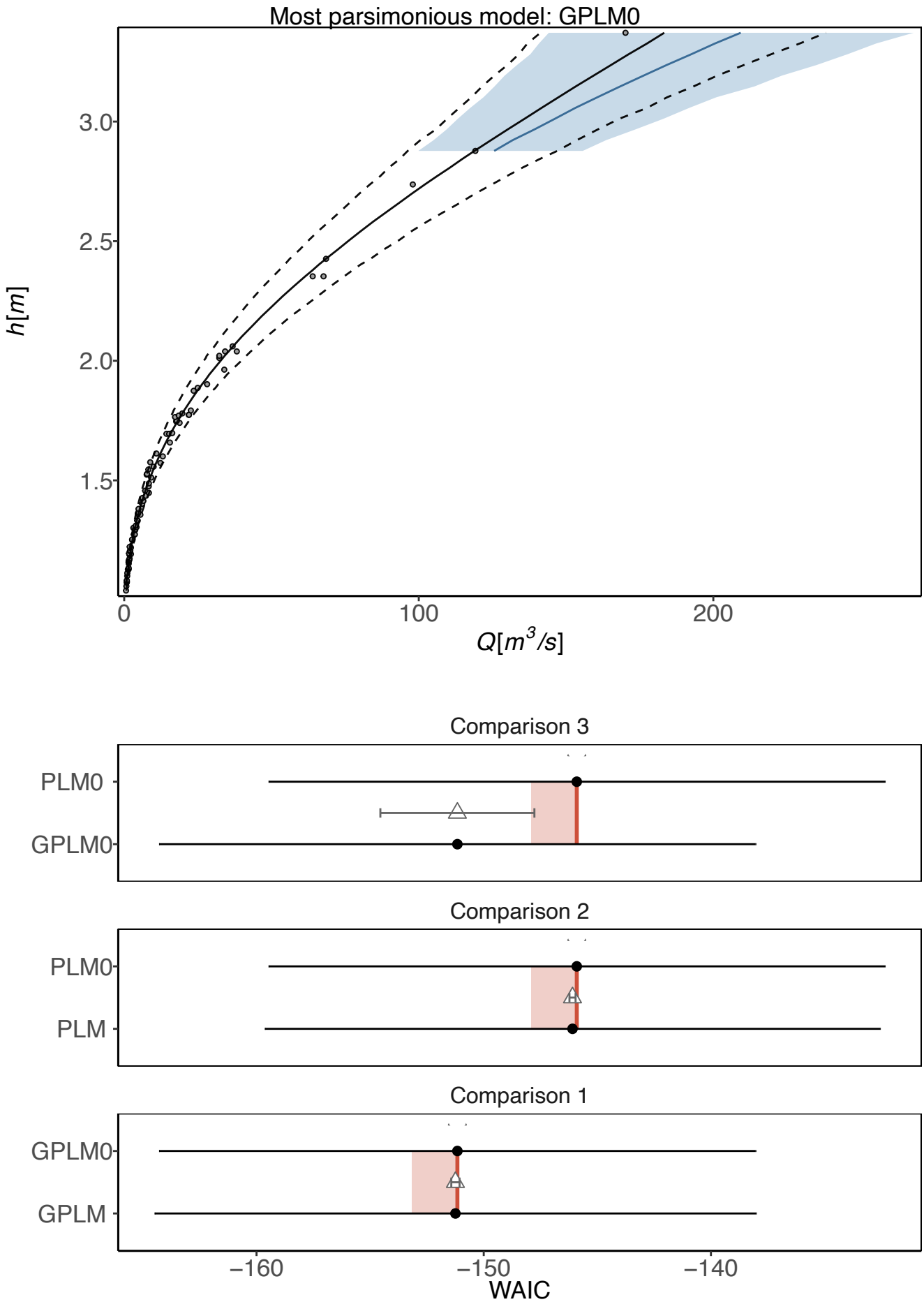
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	20.69	[18.78; 22.44]	2777	1.00
b	2.45	[2.32; 2.60]	2620	1.00
c	0.81	[0.77; 0.84]	2522	1.00
σ_η	0.08	[0.00; 0.43]	1823	1.00
η_1	–4.67	[–5.06; –4.29]	2212	1.00
η_2	–4.52	[–6.40; –2.72]	2562	1.00
η_3	–4.58	[–7.13; –2.01]	2735	1.00
η_4	–4.62	[–7.70; –1.36]	2787	1.00
η_5	–4.46	[–8.12; –0.80]	2652	1.00
η_6	–4.29	[–8.43; –0.18]	2681	1.00

Indian, Usa – PLM0



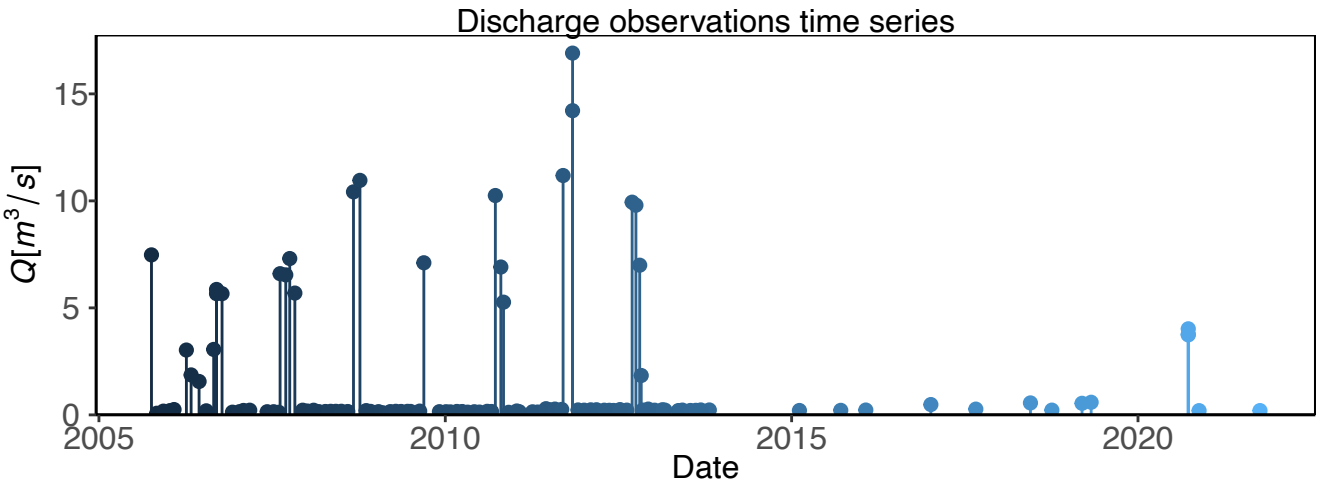
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	20.72	[18.86; 22.49]	9716	1.00
b	2.45	[2.32; 2.59]	9795	1.00
c	0.81	[0.77; 0.84]	9415	1.00
σ_ε	0.10	[0.08; 0.11]	8926	1.00

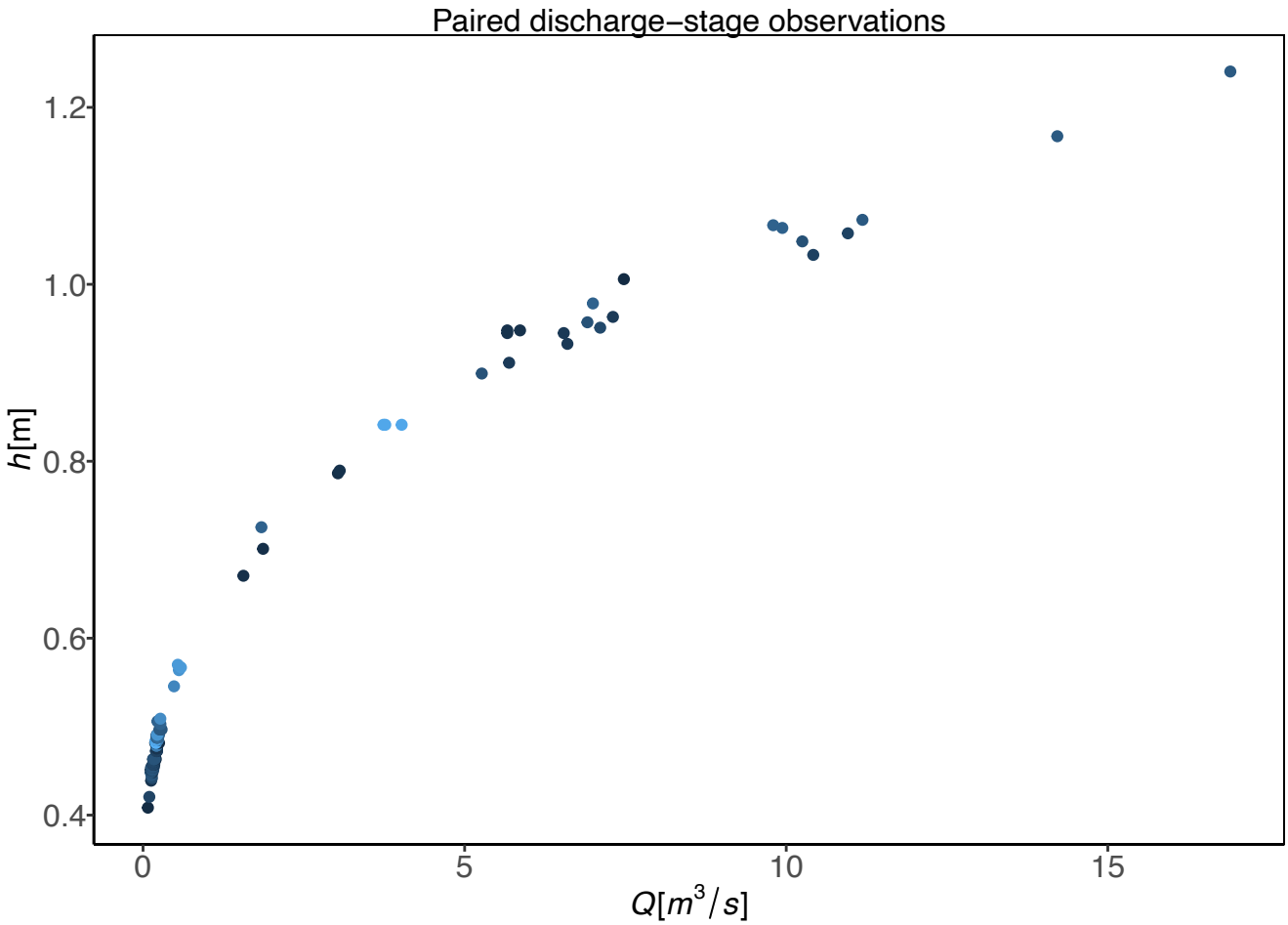
Power−law tournament results for Indian, Usa



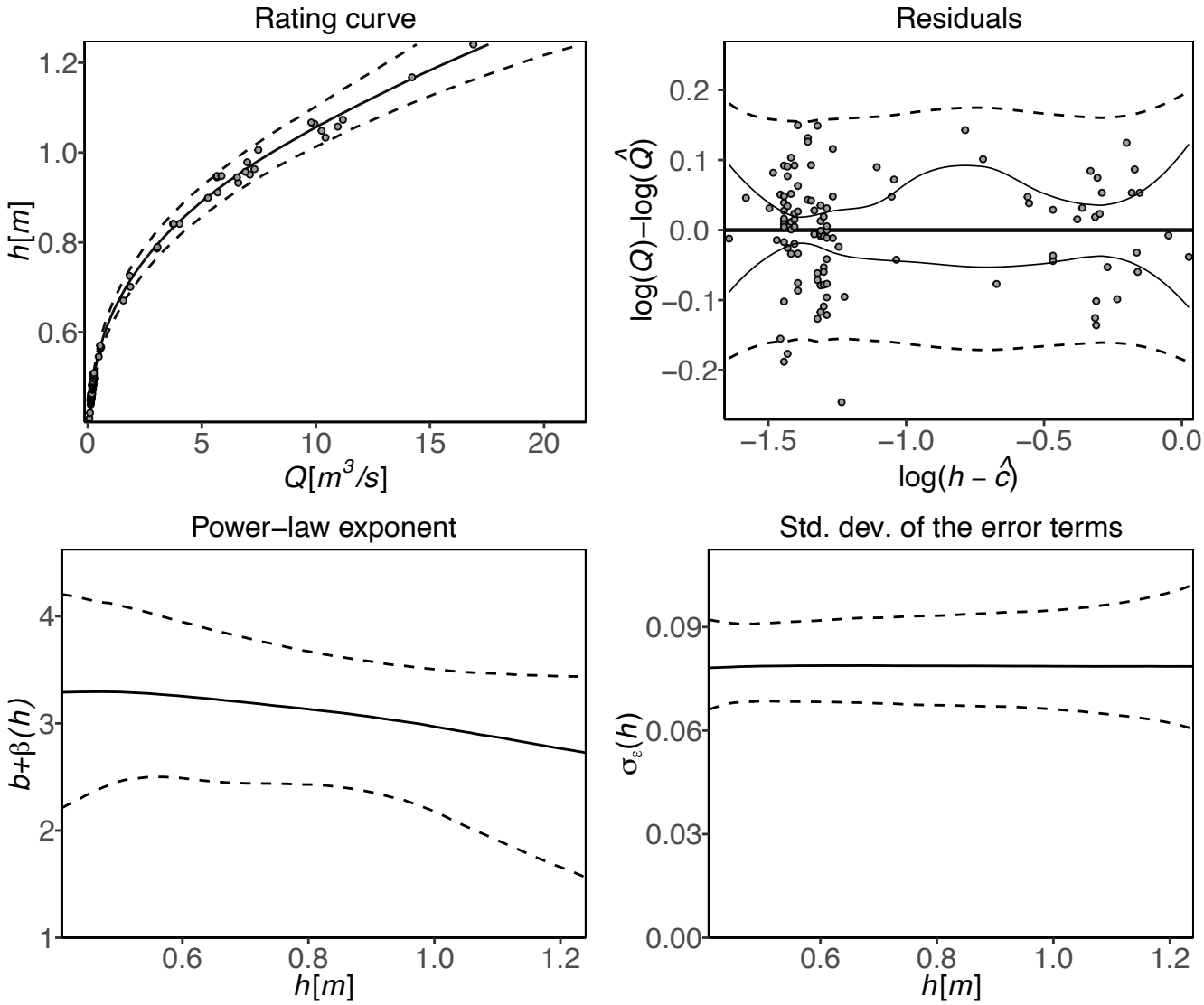
Station name:	Piru
Location:	California, USA
Station number:	11109800
Number of observations:	109
Start date:	2005–10–05
End date:	2021–10–05
Max. discharge (m^3/s):	16.9
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.36	0.44
GPLM0	0.00	0.53
PLM	7.69	0.01
PLM0	7.49	0.01



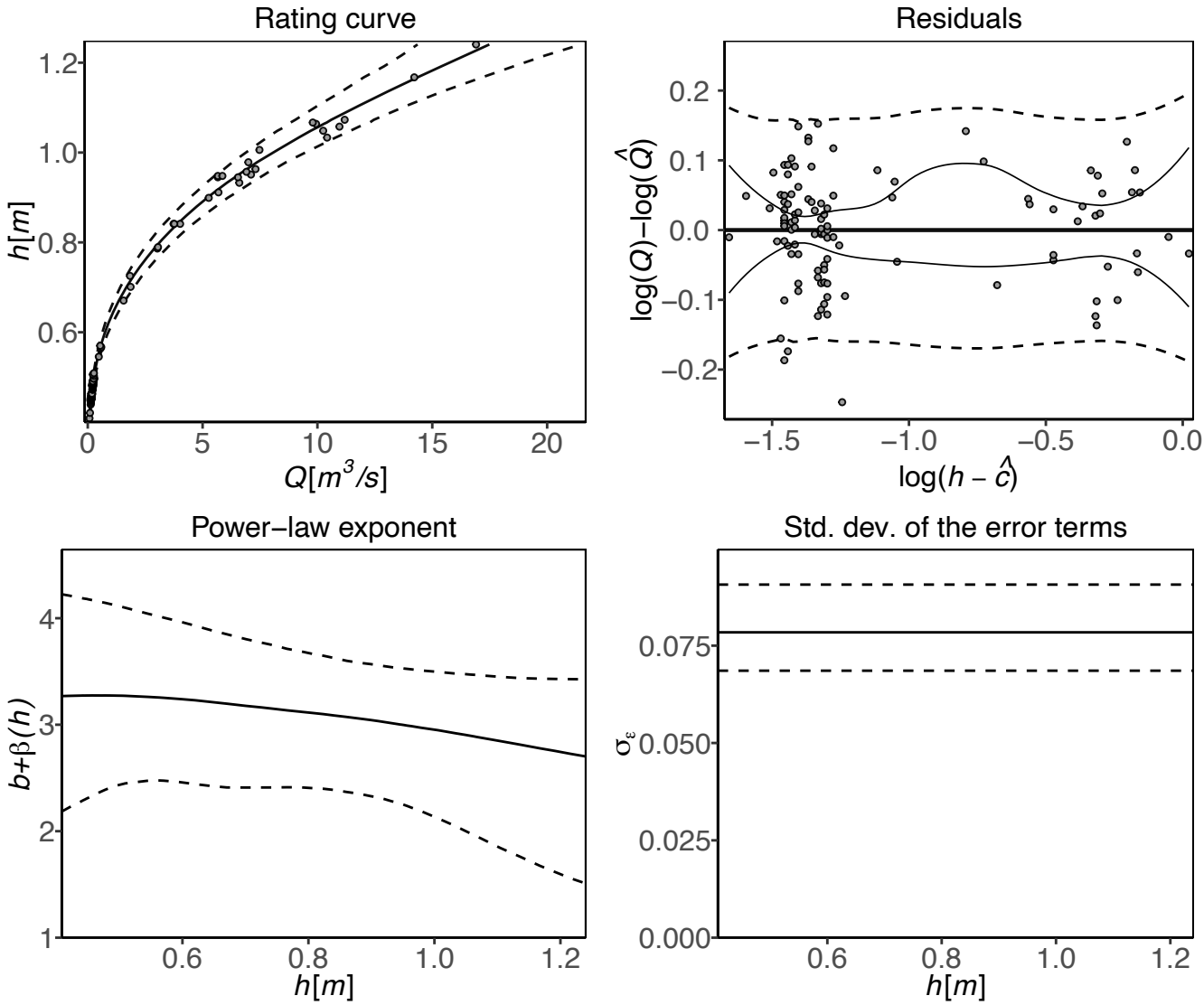


Piru, Usa – GPLM



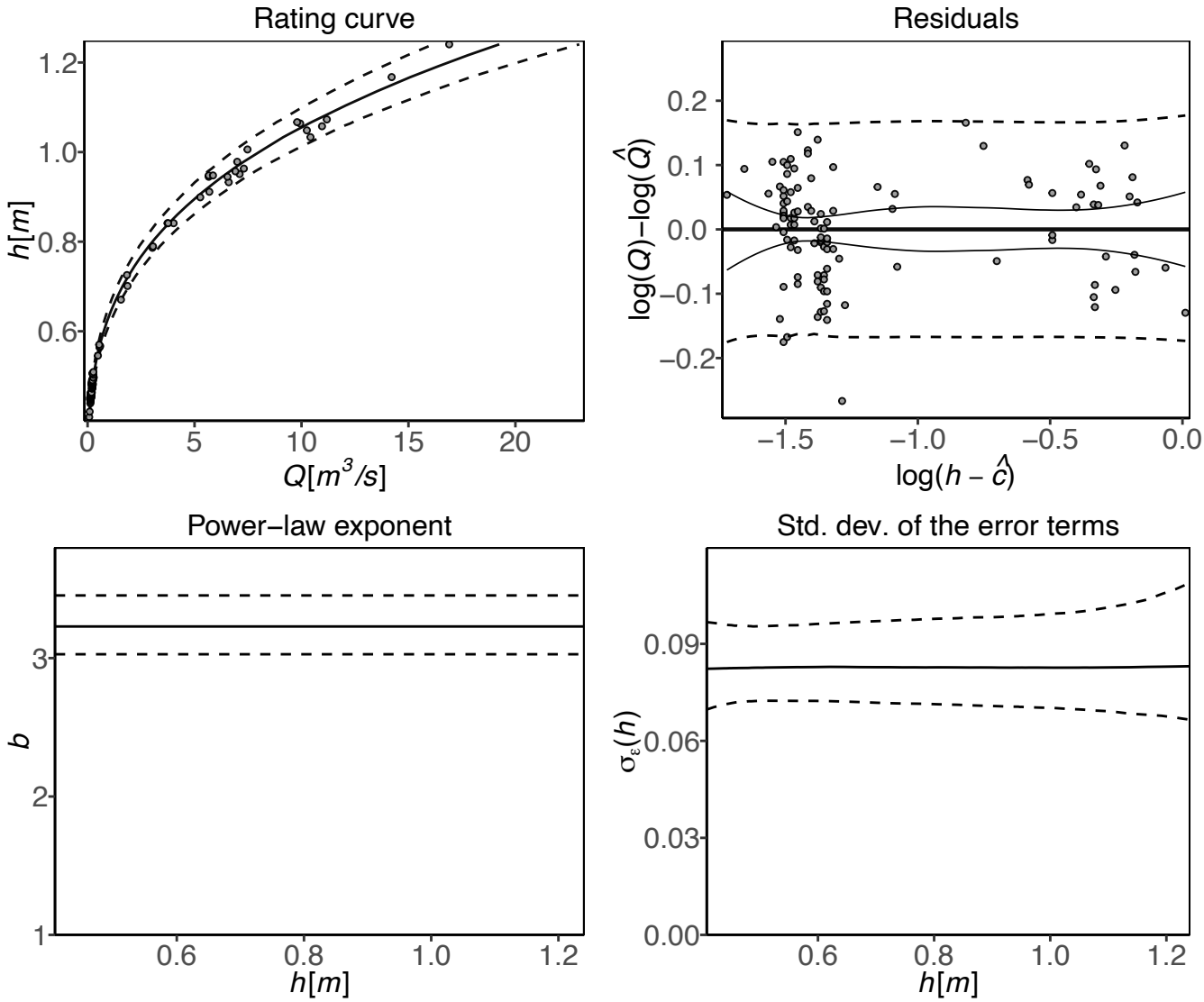
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	16.55	[11.64; 20.94]	1410	1.01
b	1.84	[1.83; 1.84]	9126	1.00
c	0.21	[0.10; 0.33]	1093	1.00
σ_β	0.72	[0.35; 1.41]	1849	1.00
ϕ_β	1.00	[0.28; 53.48]	894	1.03
σ_η	0.07	[0.00; 0.35]	1451	1.00
η_1	–5.10	[–5.43; –4.77]	1878	1.00
η_2	–4.97	[–6.82; –3.04]	2048	1.00
η_3	–5.00	[–7.52; –2.41]	2084	1.00
η_4	–4.97	[–8.09; –1.94]	2179	1.01
η_5	–5.00	[–8.62; –1.47]	2212	1.00
η_6	–5.01	[–9.08; –0.90]	2212	1.00

Piru, Usa – GPLM0



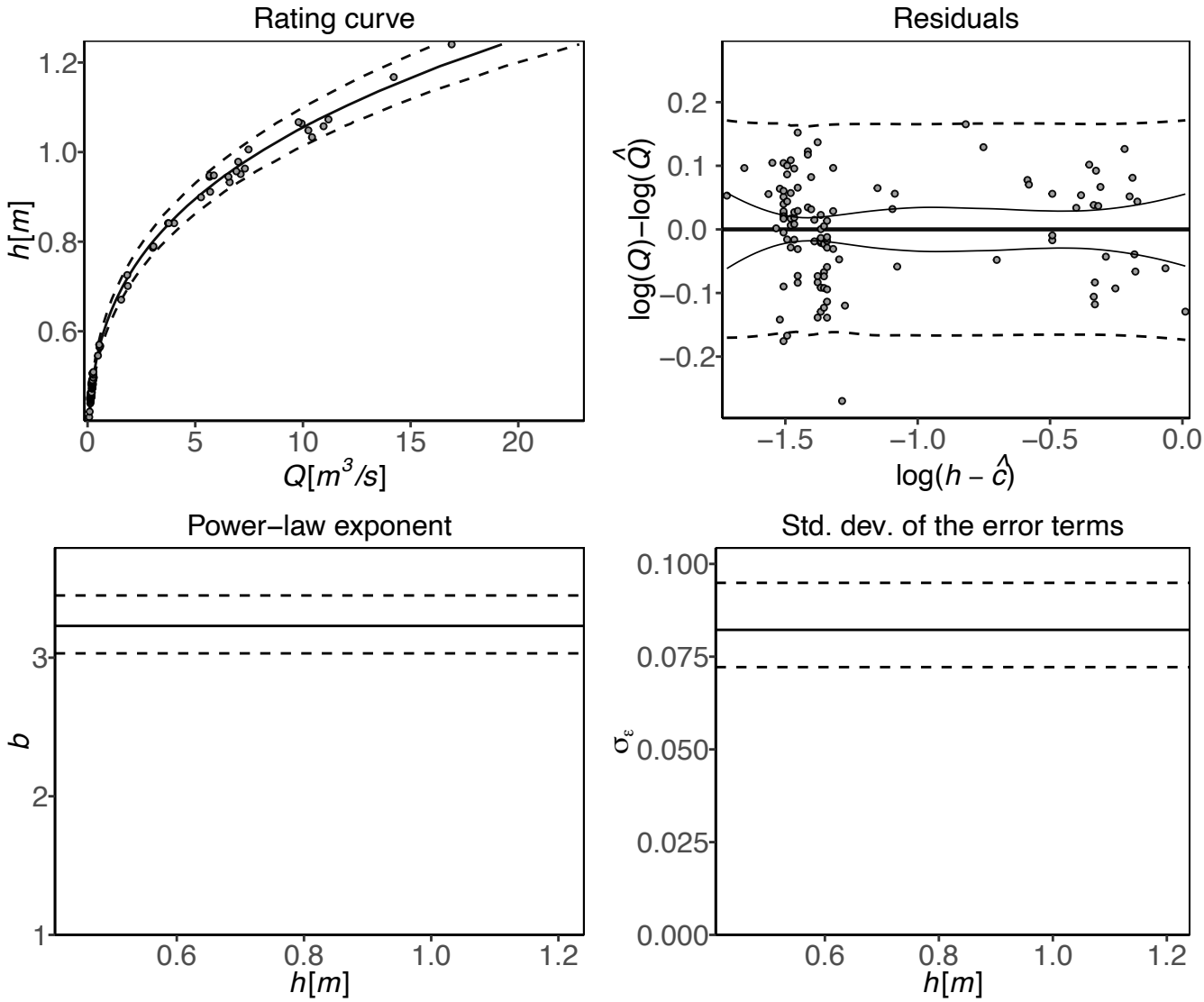
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	16.70	[11.57; 21.22]	2355	1.00
b	1.84	[1.83; 1.84]	10981	1.00
c	0.22	[0.10; 0.33]	1690	1.00
σ_ε	0.08	[0.07; 0.09]	4269	1.00
σ_β	0.85	[0.59; 1.19]	3417	1.00
ϕ_β	0.95	[0.27; 100.84]	962	1.01

Piru, Usa – PLM



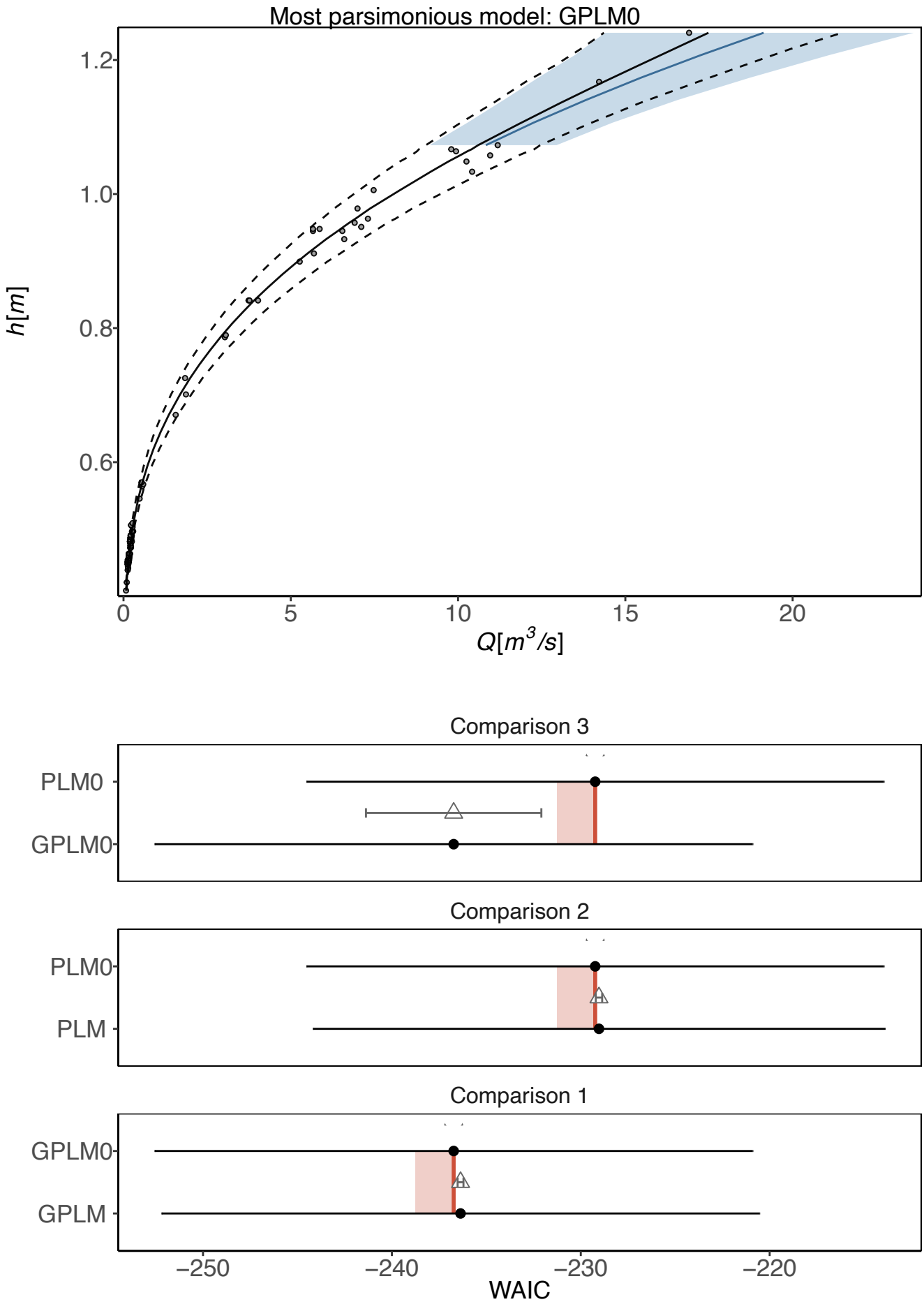
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.56	[17.38; 19.65]	3877	1.00
b	3.23	[3.03; 3.45]	2671	1.00
c	0.23	[0.20; 0.25]	2603	1.00
σ_η	0.07	[0.00; 0.35]	1893	1.00
η_1	–4.99	[–5.33; –4.67]	2424	1.00
η_2	–4.87	[–6.71; –3.11]	2690	1.00
η_3	–4.85	[–7.44; –2.42]	2643	1.00
η_4	–4.92	[–7.96; –1.89]	3025	1.00
η_5	–4.89	[–8.45; –1.31]	2799	1.00
η_6	–4.81	[–8.99; –0.82]	2783	1.00

Piru, Usa – PLM0



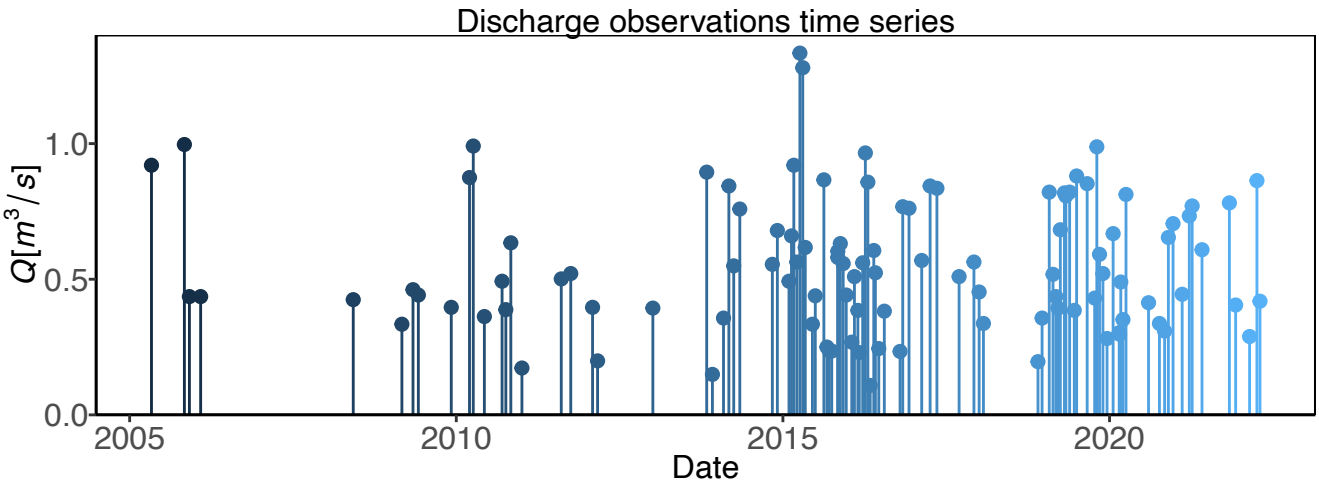
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	18.56	[17.36; 19.62]	11180	1.00
b	3.23	[3.03; 3.45]	9683	1.00
c	0.23	[0.20; 0.25]	9600	1.00
σ_ε	0.08	[0.07; 0.09]	10028	1.00

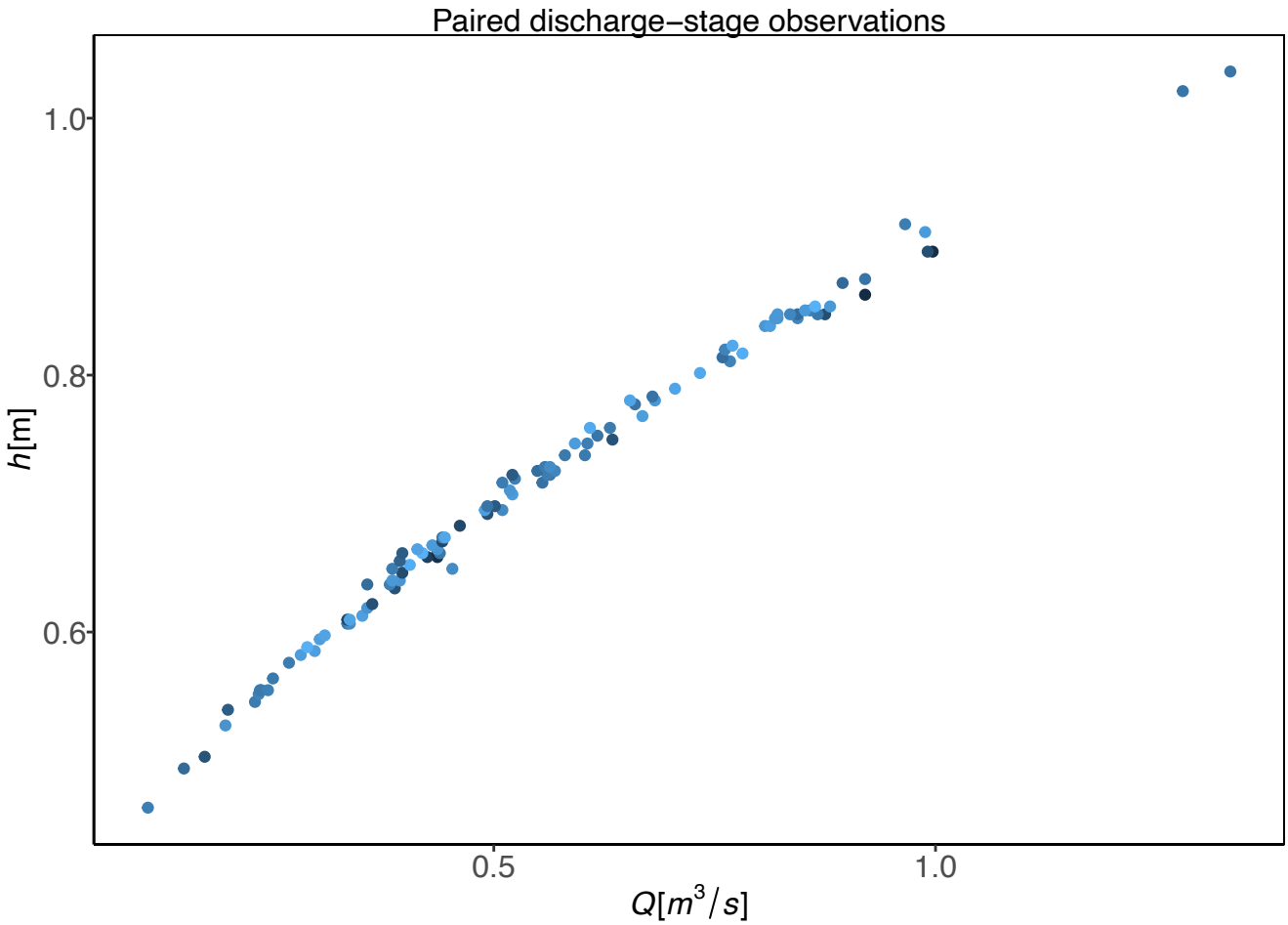
Power−law tournament results for Piru, Usa



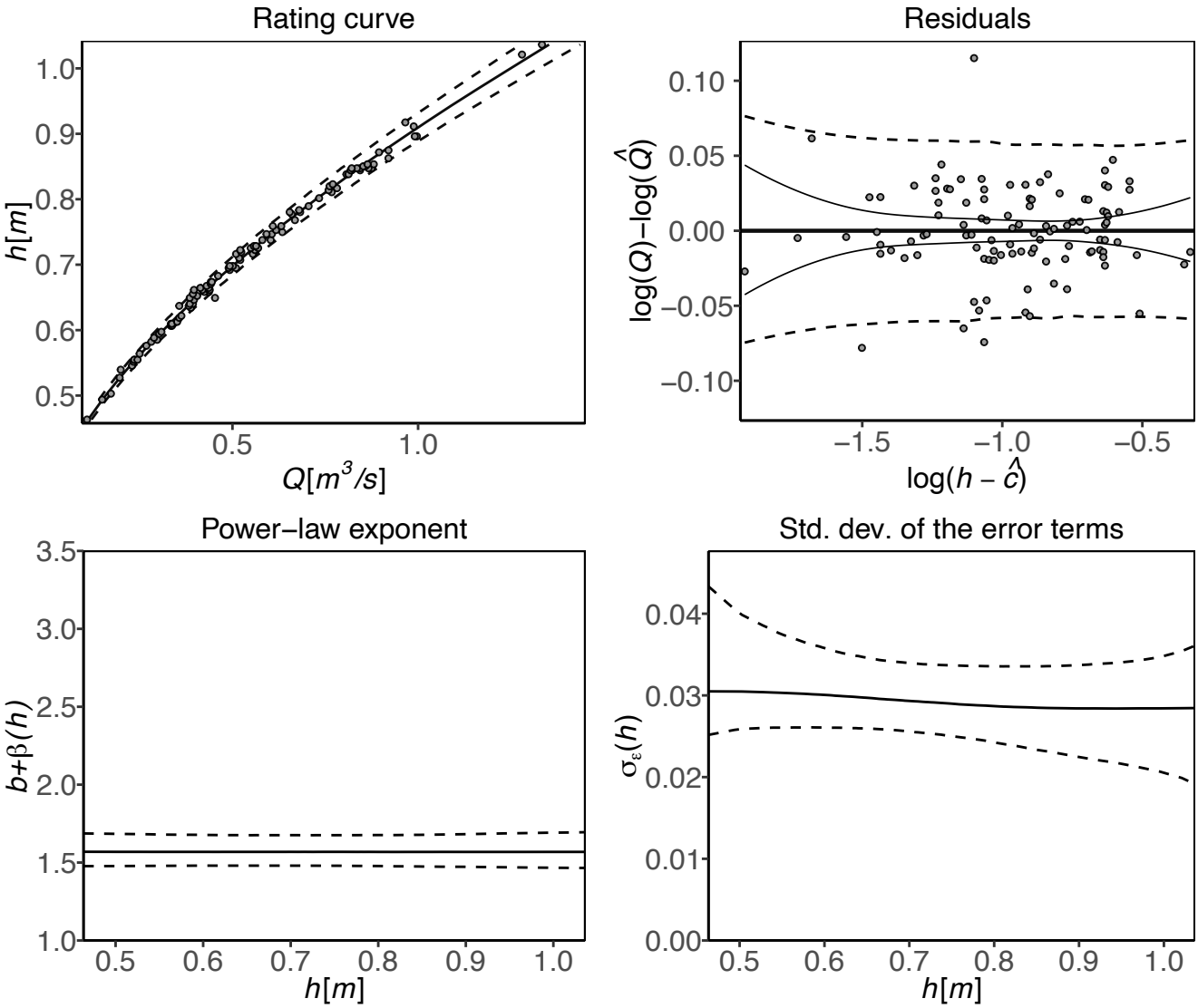
Station name:	Pontiac
Location:	California, USA
Station number:	09523800
Number of observations:	107
Start date:	2005–05–03
End date:	2022–04–21
Max. discharge (m^3/s):	1.3
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.39	0.25
GPLM0	1.10	0.18
PLM	0.00	0.31
PLM0	0.30	0.26



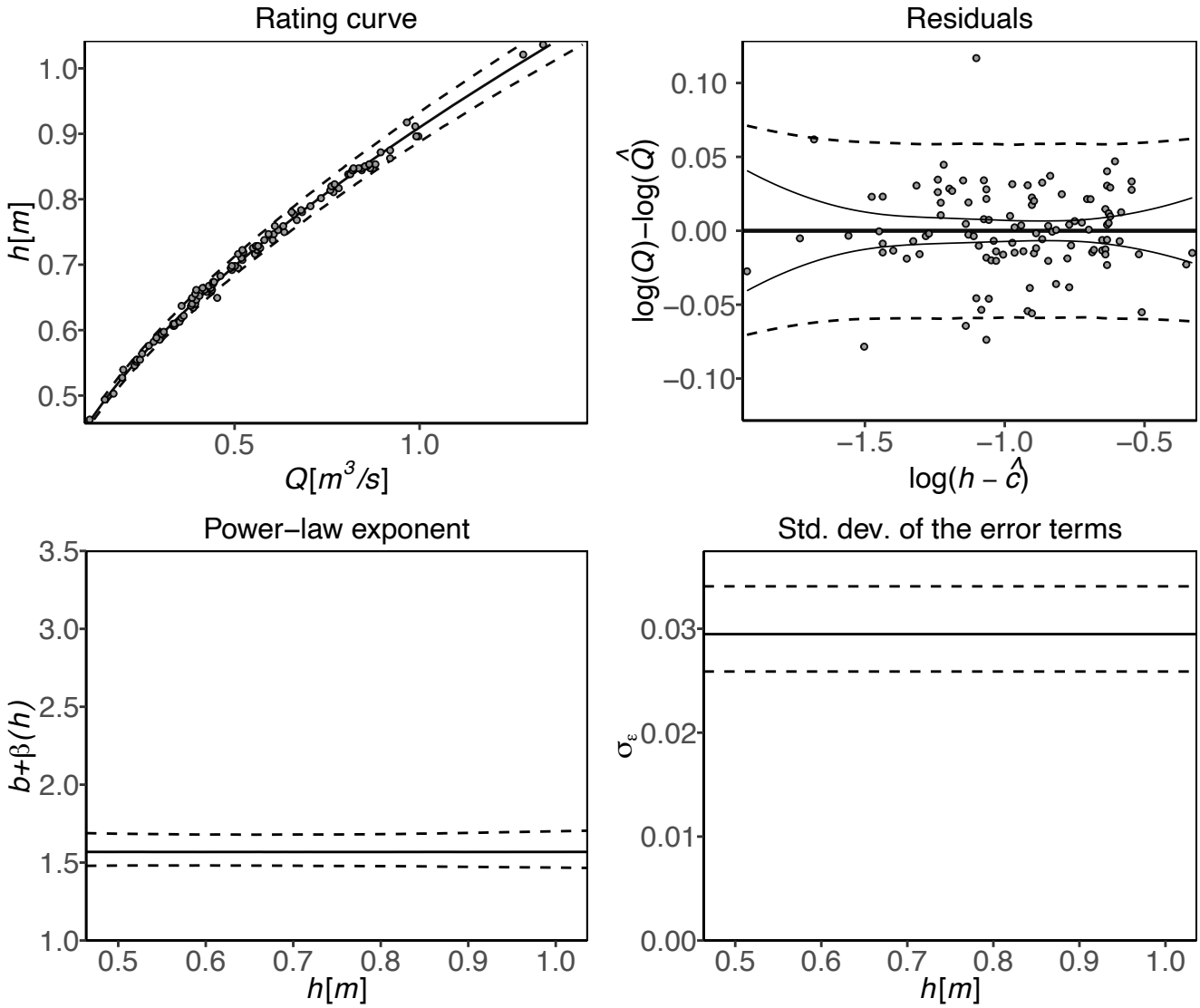


Pontiac, Usa – GPLM



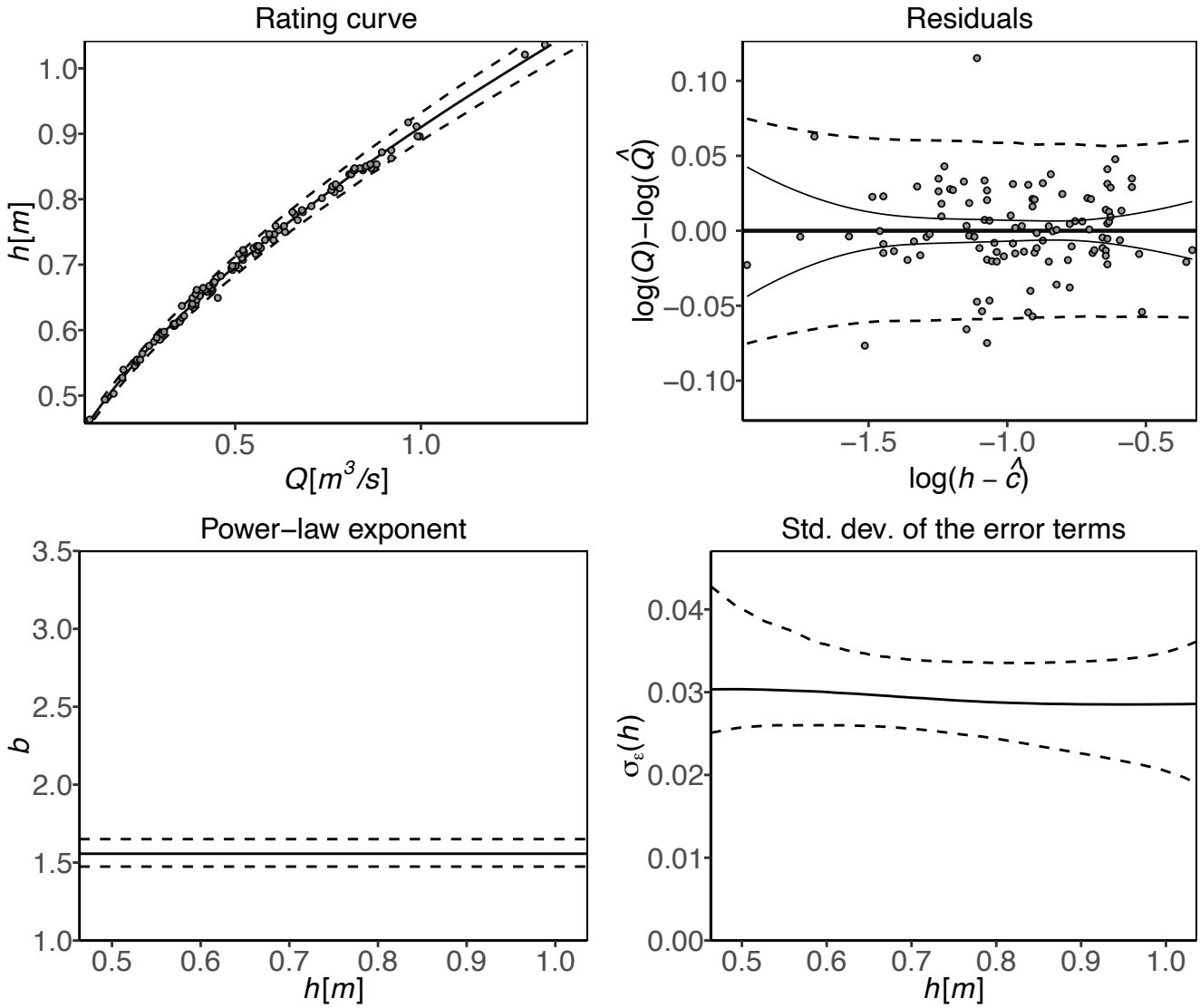
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	2.27	[2.14; 2.38]	2930	1.00
b	1.83	[1.83; 1.84]	8260	1.00
c	0.32	[0.29; 0.34]	1505	1.00
σ_β	0.25	[0.10; 0.68]	2082	1.00
ϕ_β	22.32	[1.10; 21119.95]	1188	1.01
σ_η	0.10	[0.00; 0.46]	988	1.02
η_1	−6.98	[−7.36; −6.28]	1921	1.00
η_2	−7.02	[−8.92; −5.27]	1598	1.00
η_3	−7.35	[−9.88; −4.72]	1593	1.00
η_4	−7.95	[−10.90; −4.45]	1797	1.00
η_5	−8.05	[−11.51; −4.05]	2077	1.00
η_6	−8.06	[−12.12; −3.77]	2124	1.00

Pontiac, Usa – GPLM0



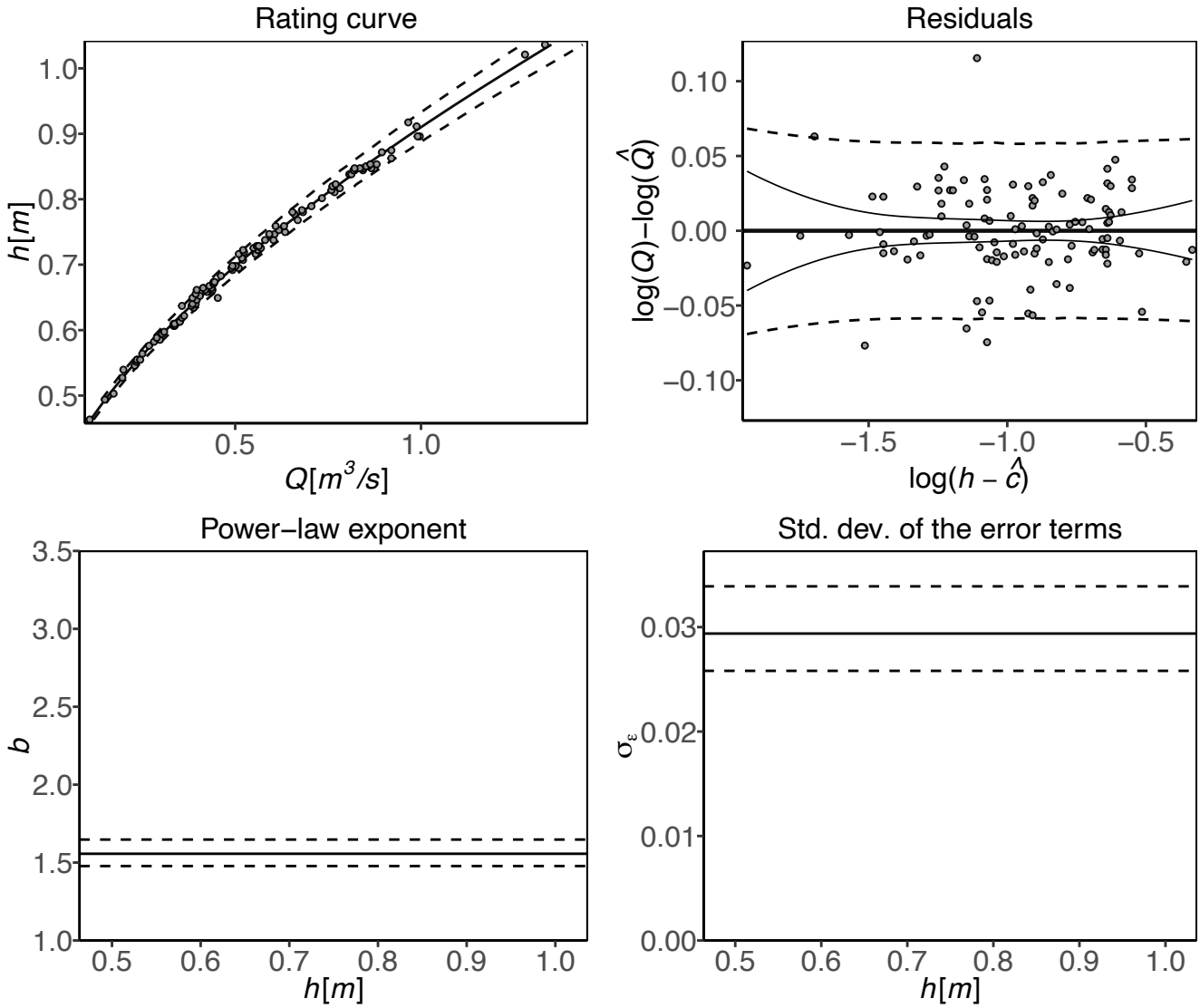
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	2.27	[2.15; 2.39]	8117	1.00
b	1.83	[1.83; 1.84]	11727	1.00
c	0.32	[0.29; 0.34]	3716	1.00
σ_ε	0.03	[0.03; 0.03]	5414	1.00
σ_β	0.50	[0.32; 0.83]	5818	1.00
ϕ_β	20.33	[1.03; 13746.37]	2574	1.00

Pontiac, Usa – PLM



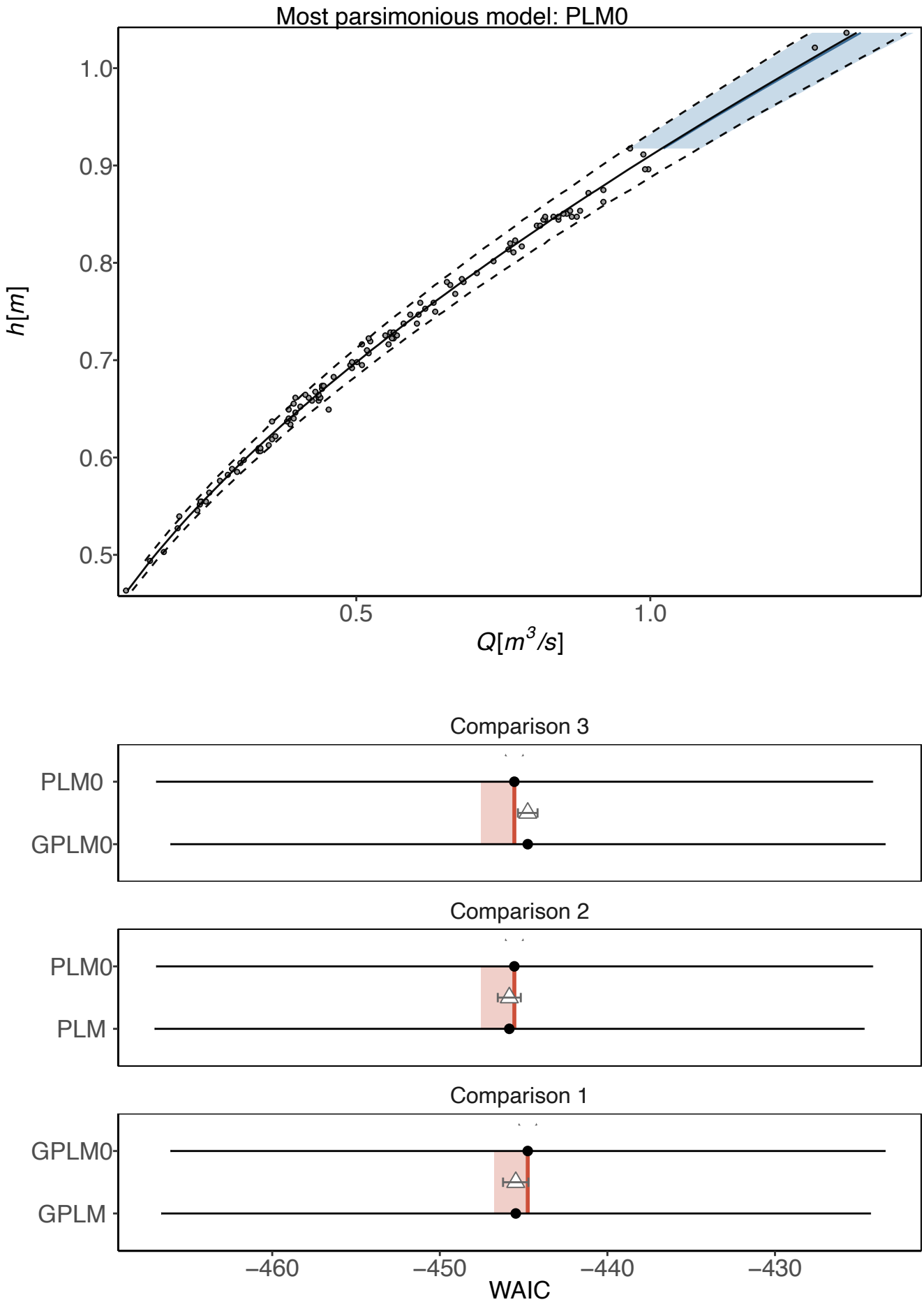
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	2.27	[2.23; 2.31]	7877	1.00
b	1.56	[1.47; 1.65]	2318	1.00
c	0.32	[0.30; 0.34]	2236	1.00
σ_η	0.10	[0.00; 0.49]	1109	1.01
η_1	–6.99	[–7.37; –6.30]	1941	1.00
η_2	–7.03	[–8.86; –5.26]	1883	1.00
η_3	–7.34	[–9.71; –4.76]	1910	1.00
η_4	–7.90	[–10.69; –4.50]	2087	1.00
η_5	–7.96	[–11.30; –4.17]	2211	1.00
η_6	–7.98	[–11.81; –3.59]	2437	1.00

Pontiac, Usa – PLM0



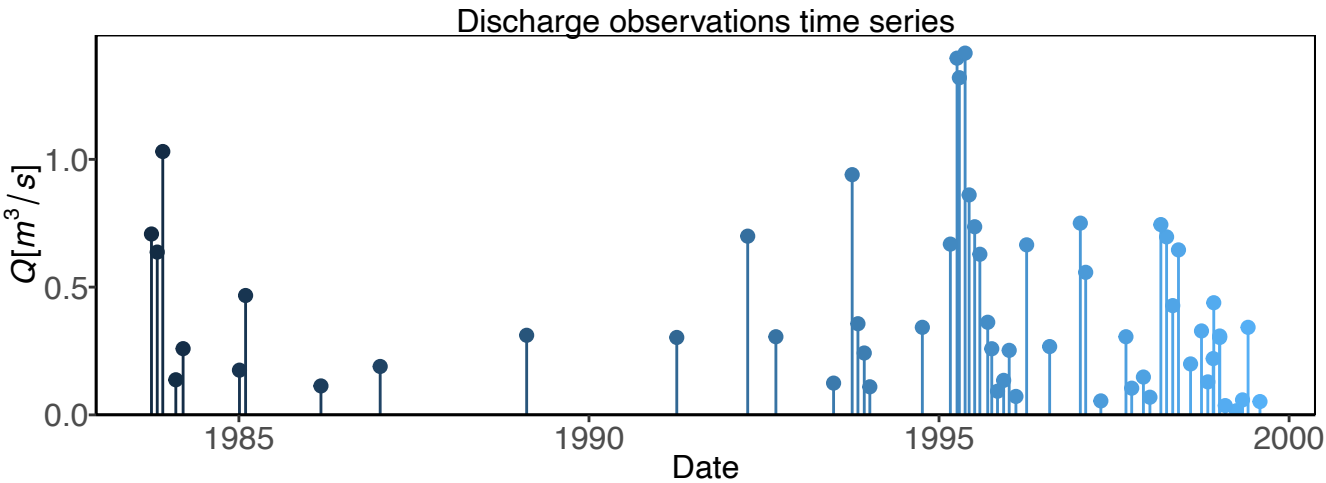
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	2.27	[2.22; 2.31]	14796	1.00
b	1.56	[1.48; 1.65]	10226	1.00
c	0.32	[0.30; 0.34]	10027	1.00
σ_ε	0.03	[0.03; 0.03]	9829	1.00

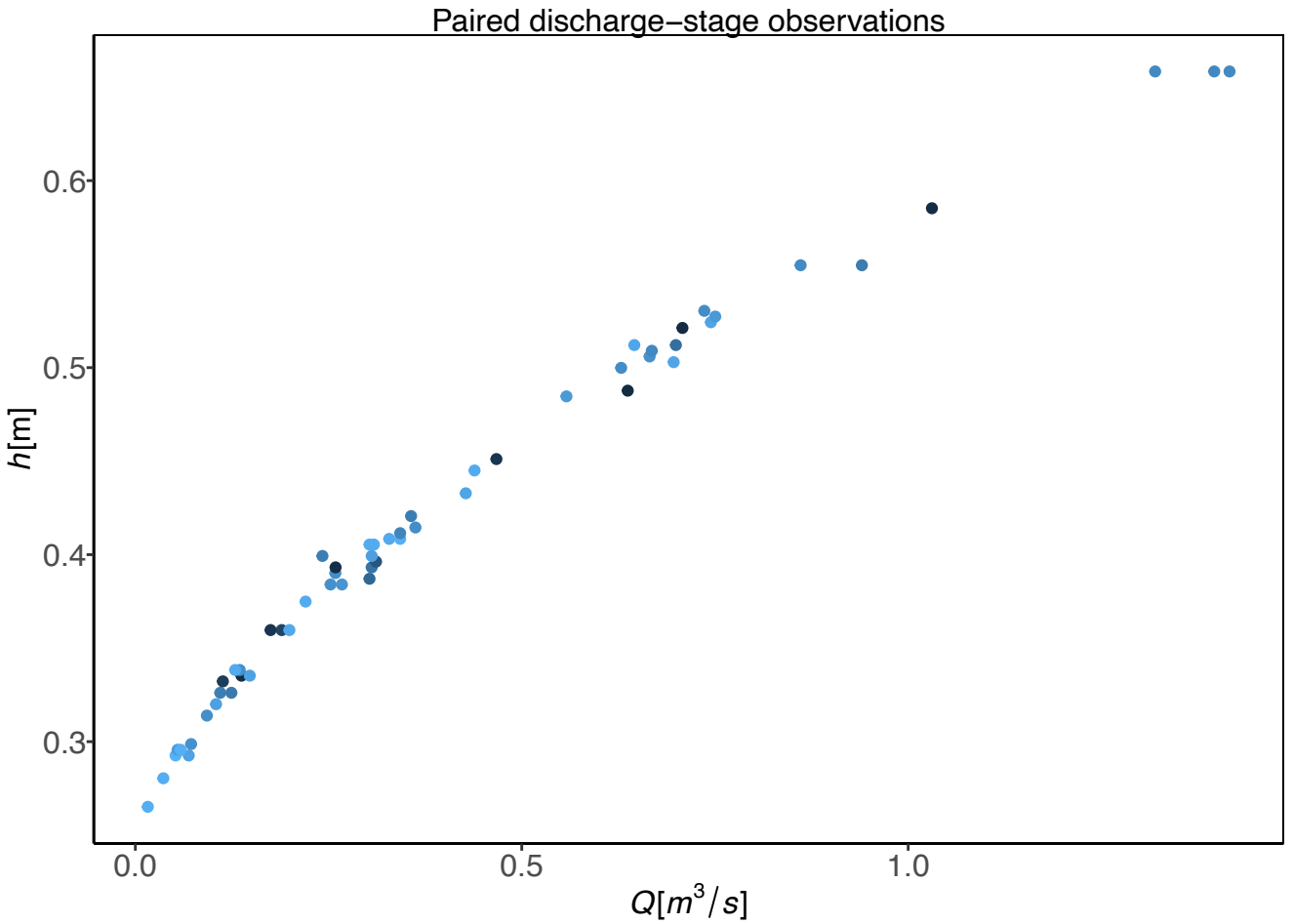
Power−law tournament results for Pontiac, Usa



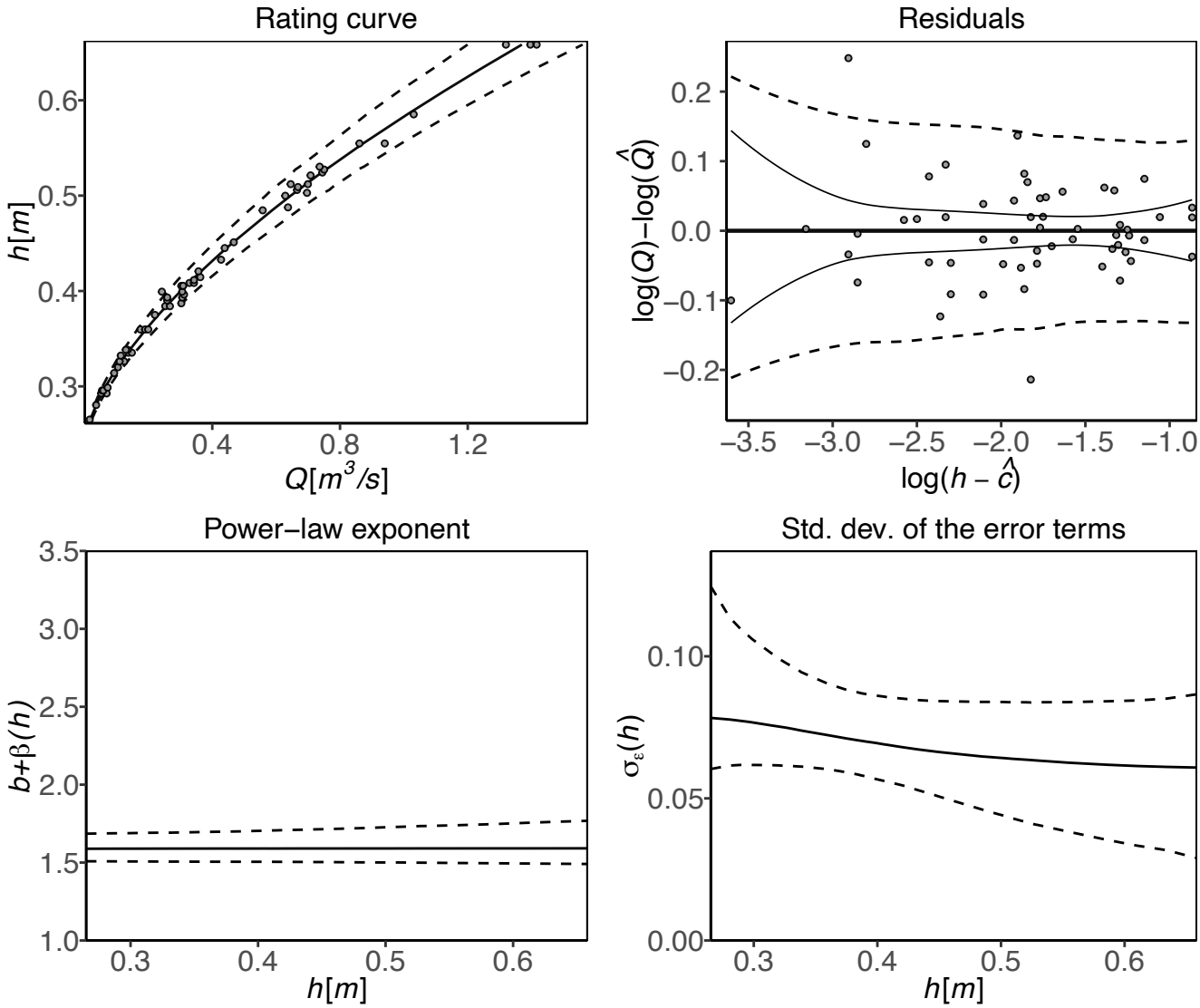
Station name:	Fontana
Location:	California, USA
Station number:	11062800
Number of observations:	57
Start date:	1983–10–03
End date:	1999–08–02
Max. discharge (m^3/s):	1.4
Tournament winner:	PLM

	dWAIC	Akaike weights
GPLM	1.03	0.32
GPLM0	4.40	0.06
PLM	0.00	0.53
PLM0	3.59	0.09



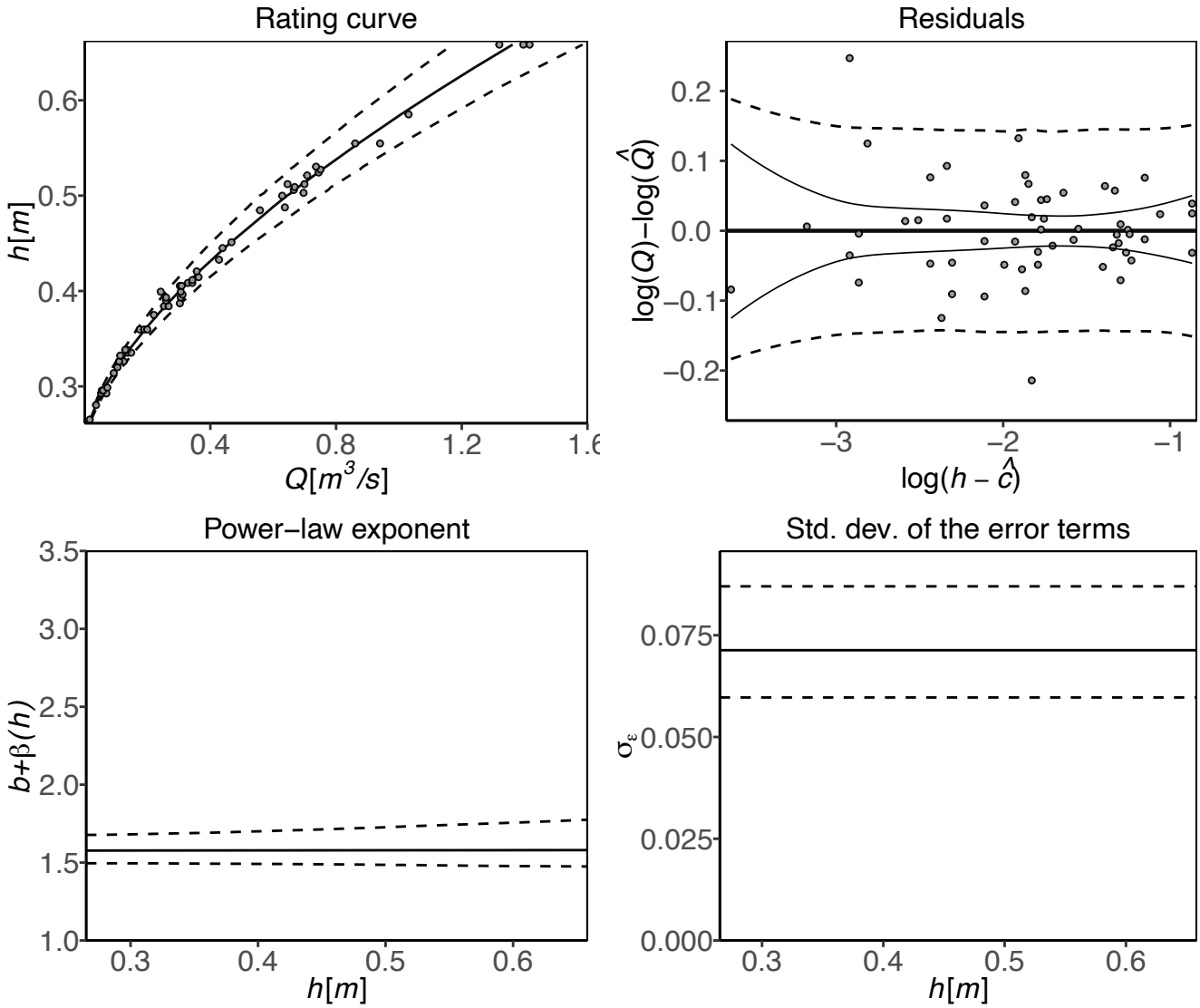


Fontana, Usa – GPLM



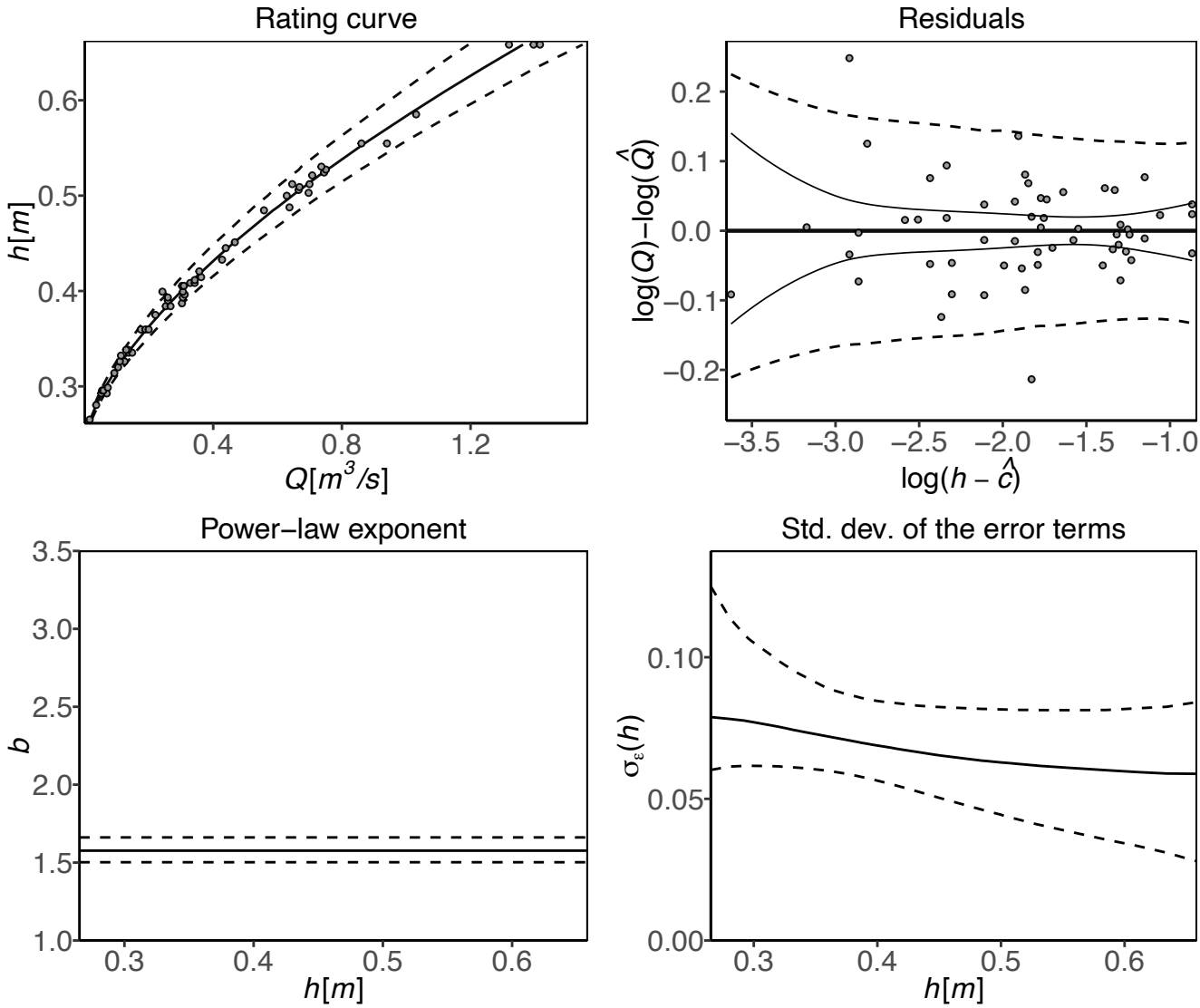
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.44	[4.86; 6.41]	4966	1.00
b	1.83	[1.83; 1.84]	9031	1.00
c	0.24	[0.23; 0.24]	1981	1.00
σ_β	0.23	[0.09; 0.67]	2384	1.00
ϕ_β	18.02	[0.88; 11379.56]	1507	1.00
σ_η	0.21	[0.01; 0.69]	855	1.06
η_1	−5.09	[−5.62; −4.17]	1752	1.01
η_2	−5.31	[−7.08; −3.72]	1763	1.00
η_3	−6.07	[−8.30; −3.65]	1494	1.01
η_4	−6.93	[−9.52; −3.39]	1646	1.01
η_5	−7.30	[−10.44; −3.24]	2071	1.00
η_6	−7.42	[−10.99; −3.08]	2077	1.00

Fontana, Usa – GPLM0



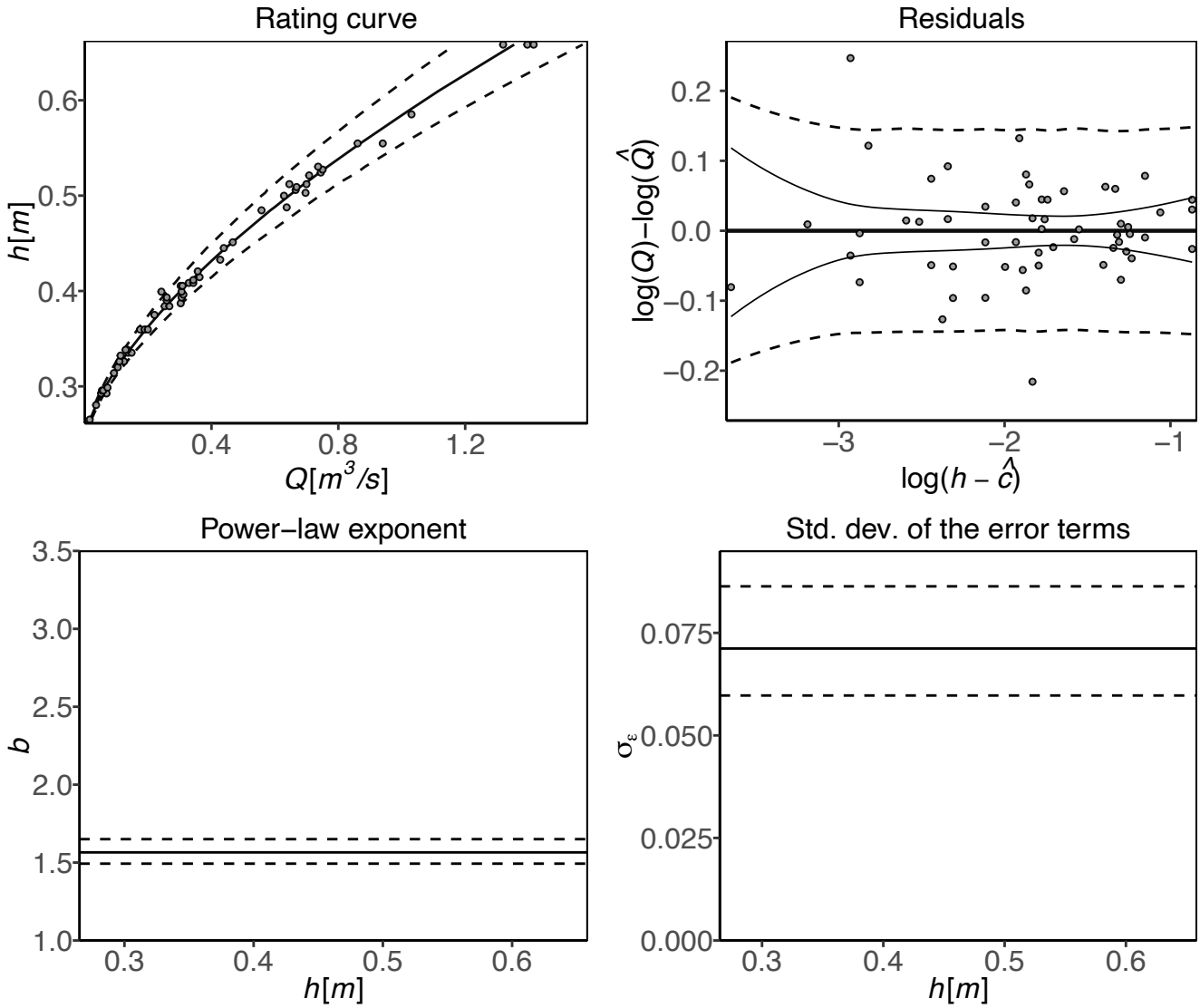
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.37	[4.78; 6.50]	7911	1.00
b	1.83	[1.83; 1.84]	12765	1.00
c	0.24	[0.23; 0.24]	4632	1.00
σ_ε	0.07	[0.06; 0.09]	5051	1.00
σ_β	0.50	[0.32; 0.84]	5572	1.00
ϕ_β	19.22	[0.80; 12195.59]	3199	1.00

Fontana, Usa – PLM



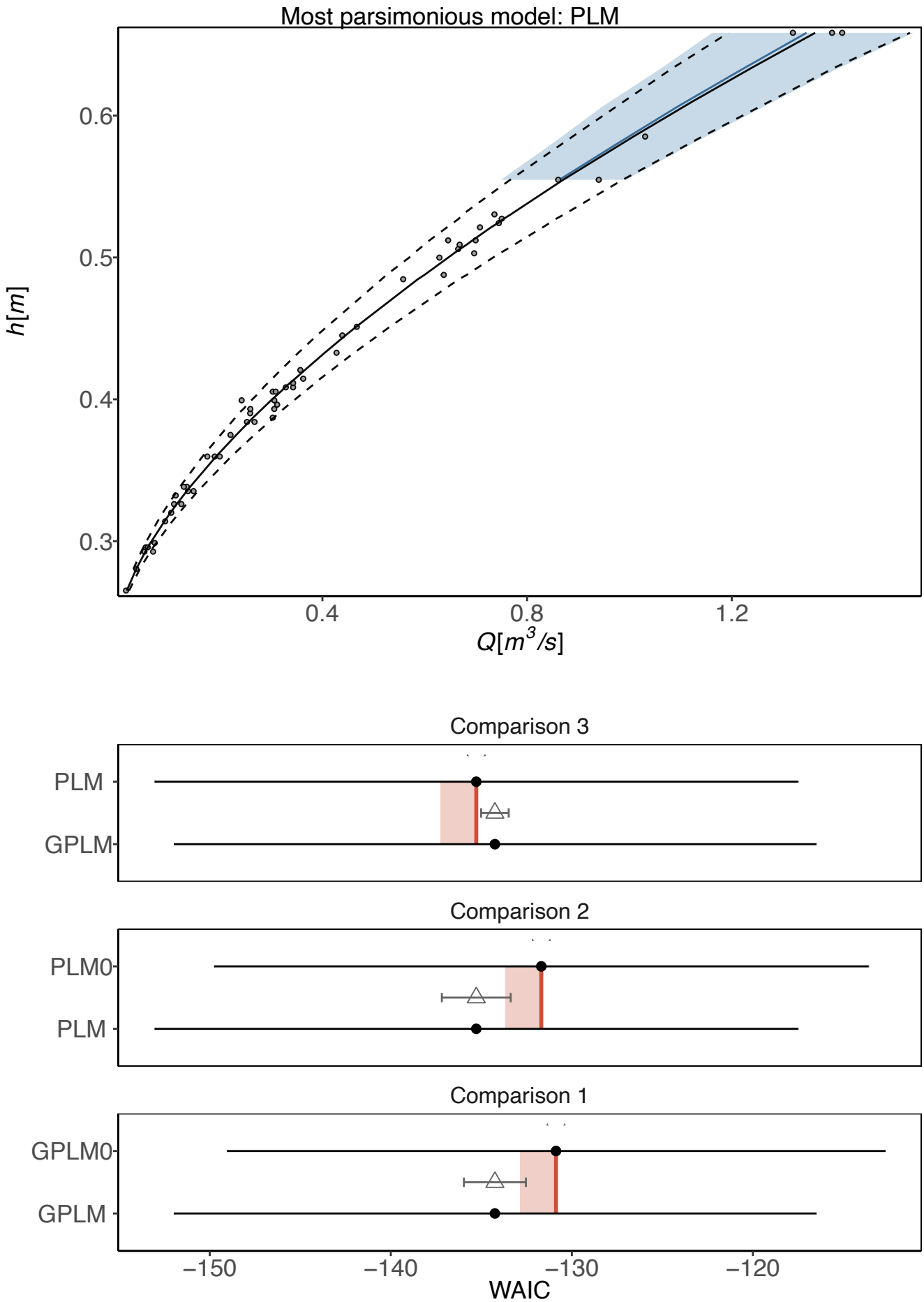
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.35	[4.90; 5.84]	3337	1.00
b	1.58	[1.50; 1.66]	2640	1.00
c	0.24	[0.23; 0.24]	2429	1.00
σ_η	0.24	[0.01; 0.69]	912	1.03
η_1	–5.08	[–5.62; –4.16]	2025	1.01
η_2	–5.36	[–7.09; –3.76]	2072	1.01
η_3	–6.15	[–8.40; –3.86]	1863	1.00
η_4	–7.04	[–9.65; –3.99]	2012	1.00
η_5	–7.39	[–10.55; –3.80]	2390	1.00
η_6	–7.59	[–11.22; –3.54]	2548	1.00

Fontana, Usa – PLM0



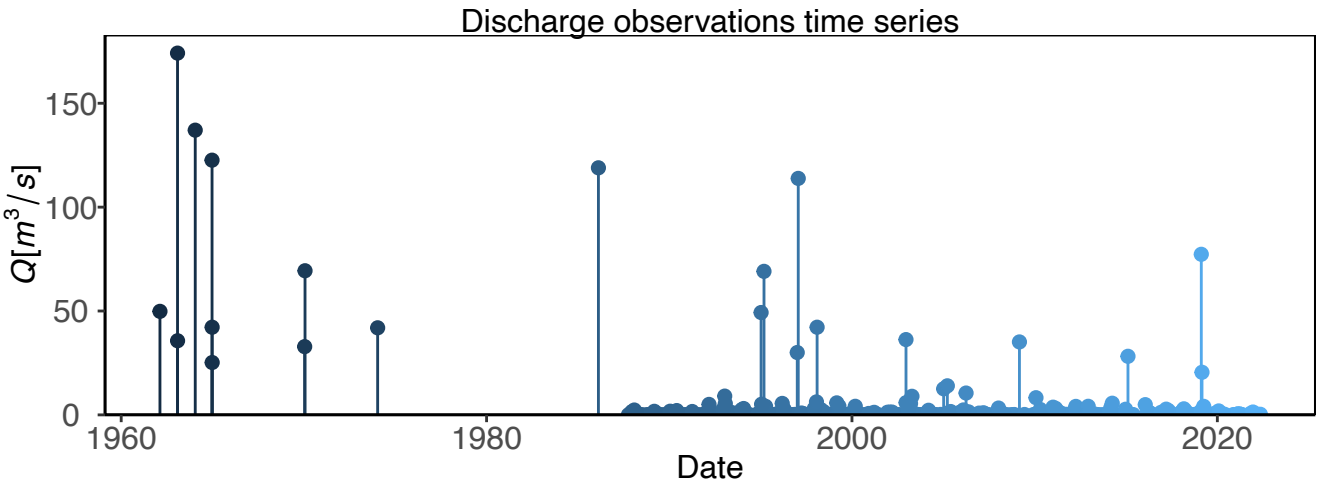
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.29	[4.83; 5.81]	11482	1.00
b	1.57	[1.49; 1.65]	10188	1.00
c	0.24	[0.23; 0.24]	9447	1.00
σ_ε	0.07	[0.06; 0.09]	10472	1.00

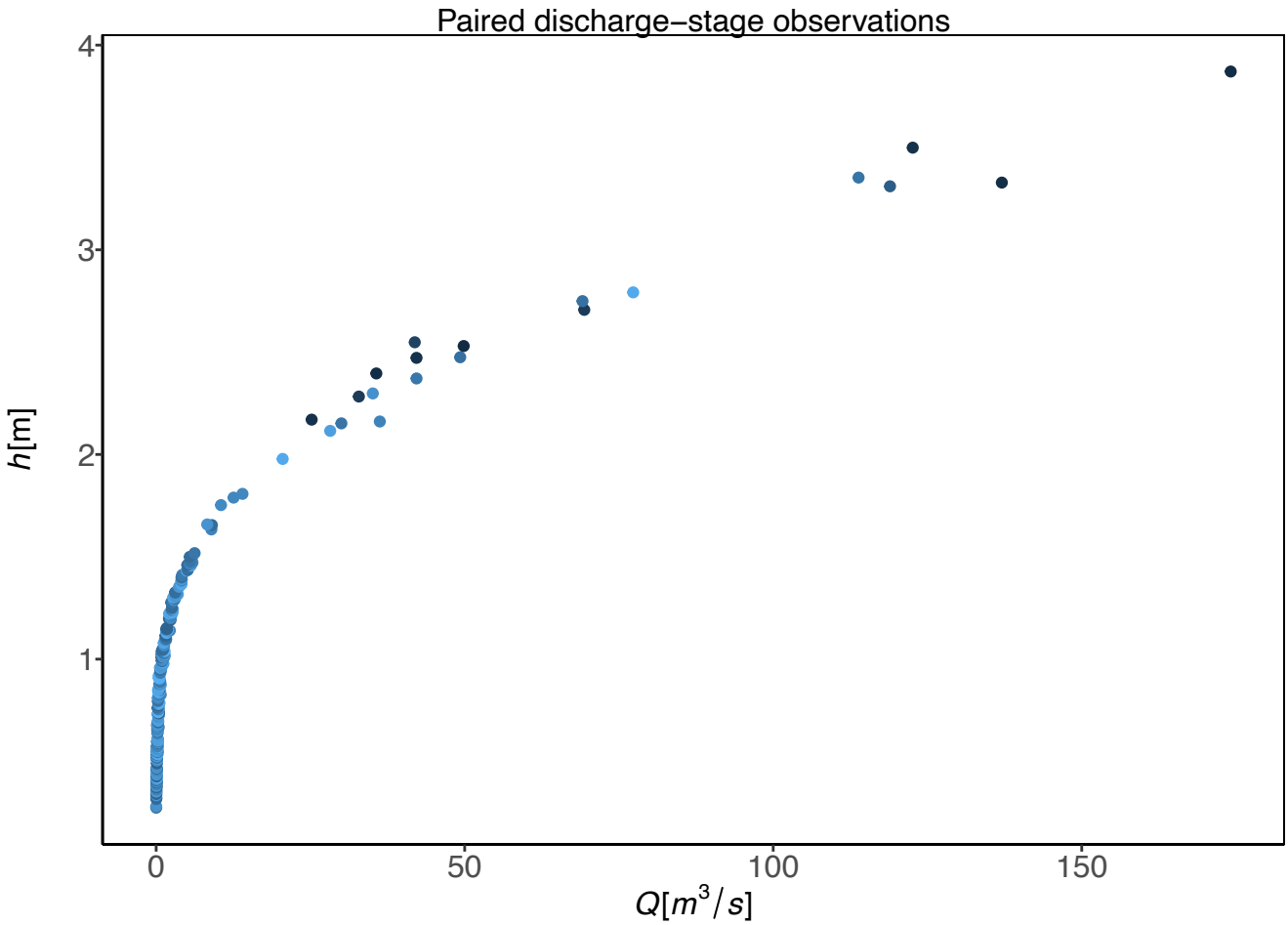
Power−law tournament results for Fontana, Usa



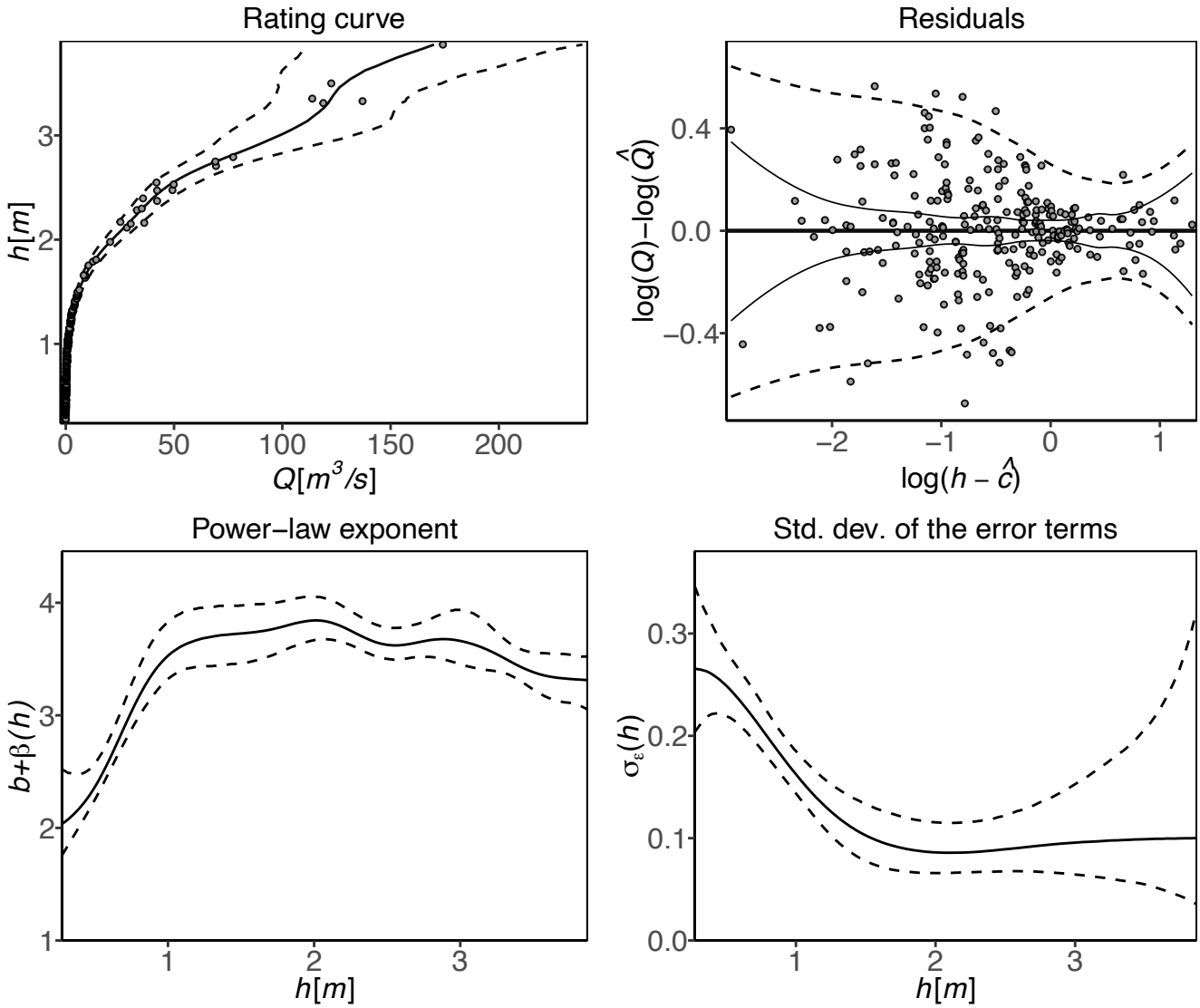
Station name:	Kelsey
Location:	California, USA
Station number:	11449500
Number of observations:	256
Start date:	1962–02–14
End date:	2022–05–10
Max. discharge (m^3/s):	174.1
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	1
GPLM0	64.36	0
PLM	111.71	0
PLM0	179.40	0



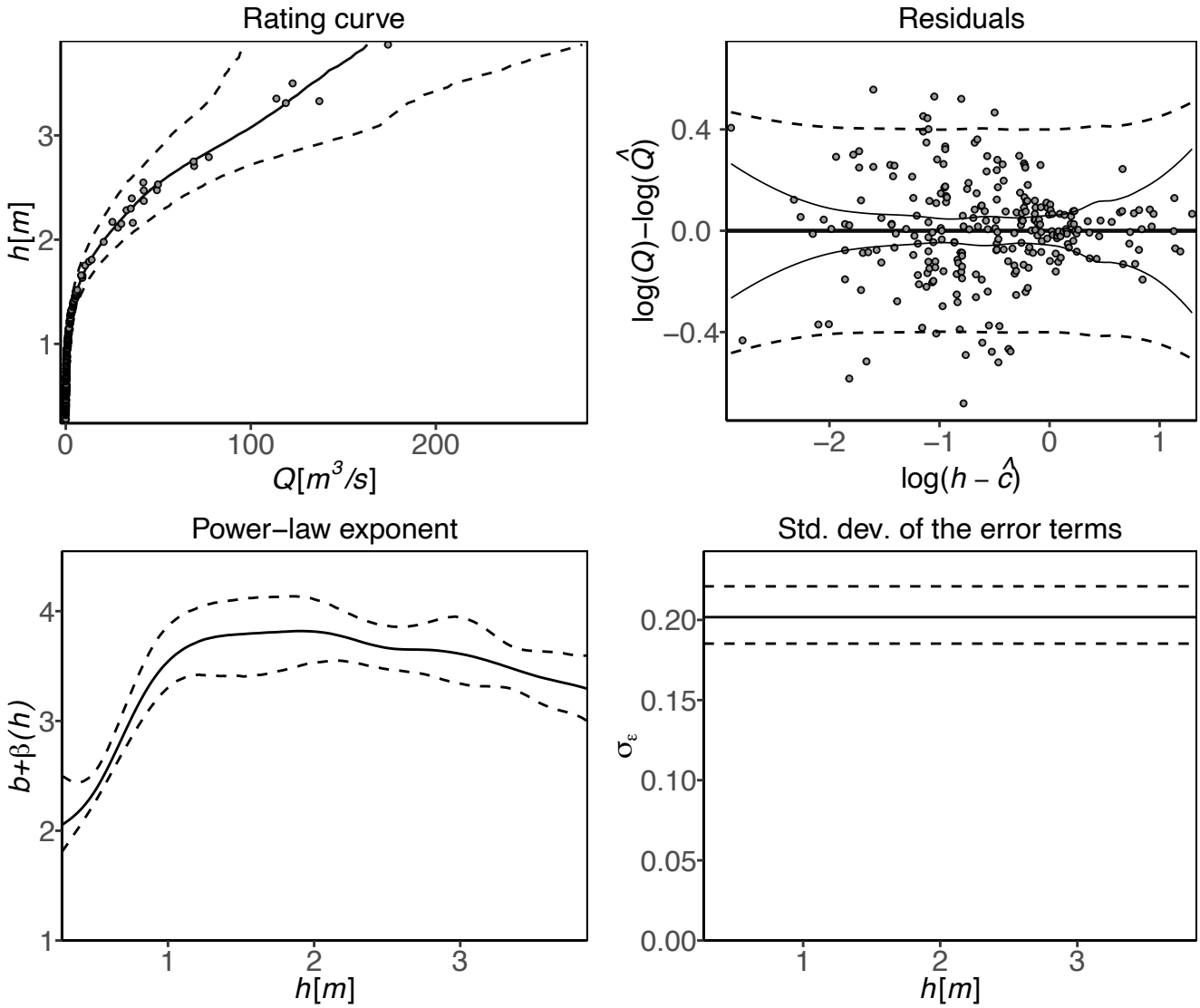


Kelsey, Usa – GPLM



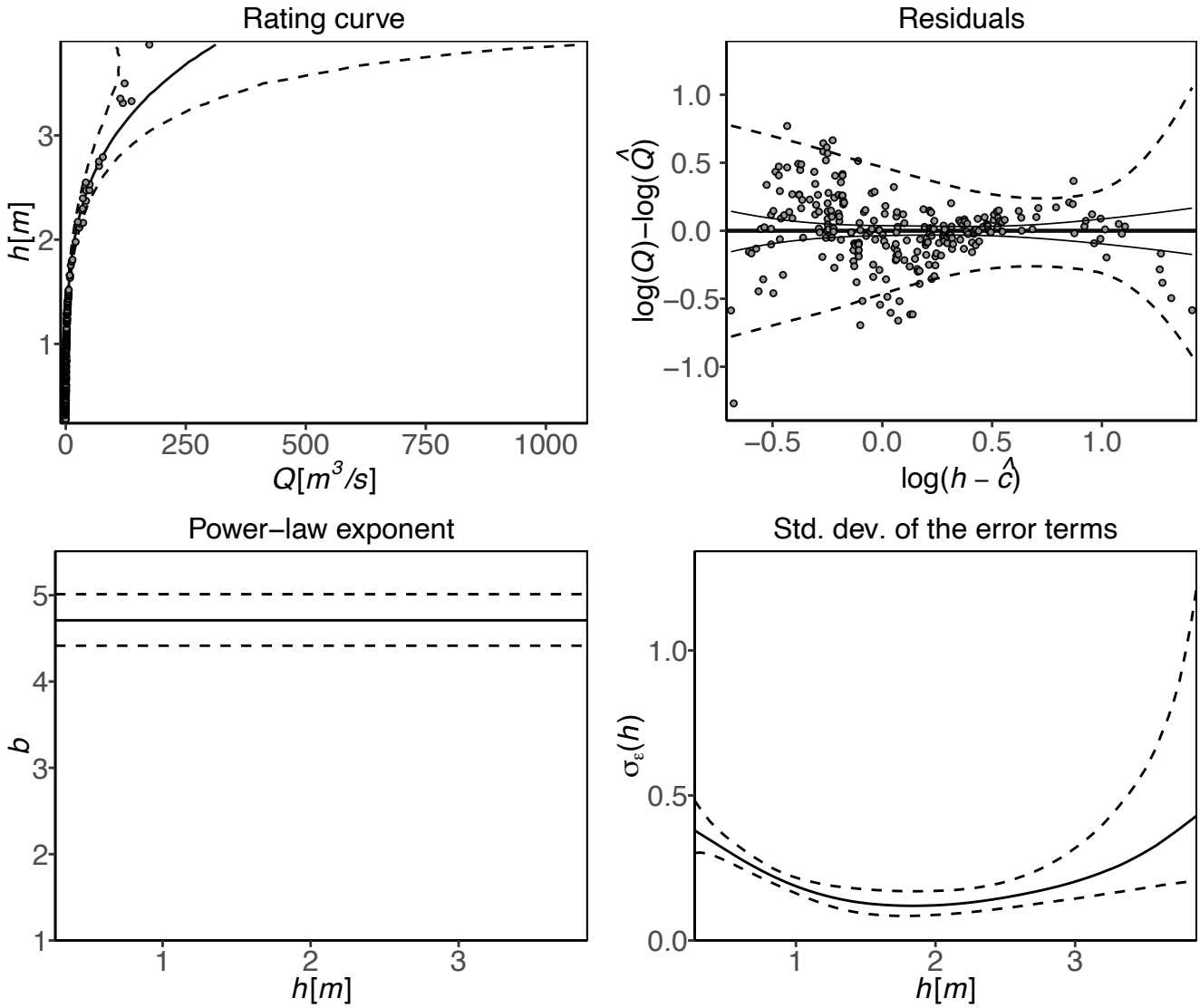
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	2.34	[1.89; 2.58]	1935	1.00
b	1.84	[1.83; 1.84]	8933	1.00
c	0.22	[0.16; 0.25]	1868	1.00
σ_β	0.97	[0.66; 1.54]	2081	1.00
ϕ_β	1.01	[0.67; 1.66]	1665	1.00
σ_η	0.87	[0.48; 1.56]	1362	1.00
η_1	–2.65	[–3.19; –2.12]	1680	1.00
η_2	–2.68	[–3.69; –2.09]	1183	1.01
η_3	–5.61	[–7.02; –4.62]	1759	1.00
η_4	–5.08	[–7.58; –3.49]	1660	1.00
η_5	–4.88	[–7.74; –3.01]	2055	1.00
η_6	–4.94	[–8.22; –2.33]	2168	1.00

Kelsey, Usa – GPLM0



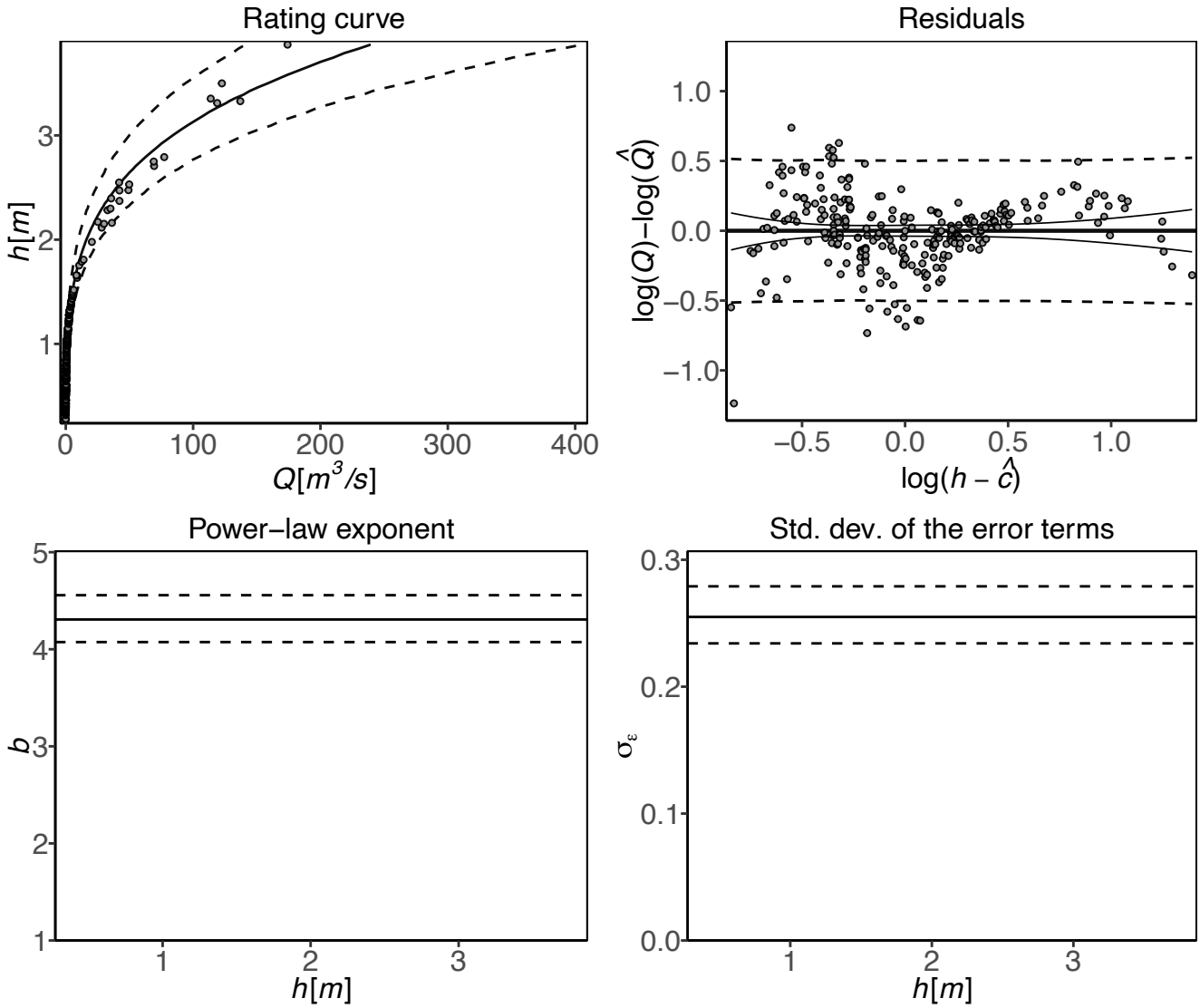
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	2.31	[1.93; 2.55]	5781	1.00
b	1.84	[1.83; 1.84]	11212	1.00
c	0.22	[0.17; 0.24]	5406	1.00
σ_ε	0.20	[0.19; 0.22]	5169	1.00
σ_β	0.98	[0.81; 1.23]	4977	1.00
ϕ_β	1.02	[0.66; 1.71]	5307	1.00

Kelsey, Usa – PLM



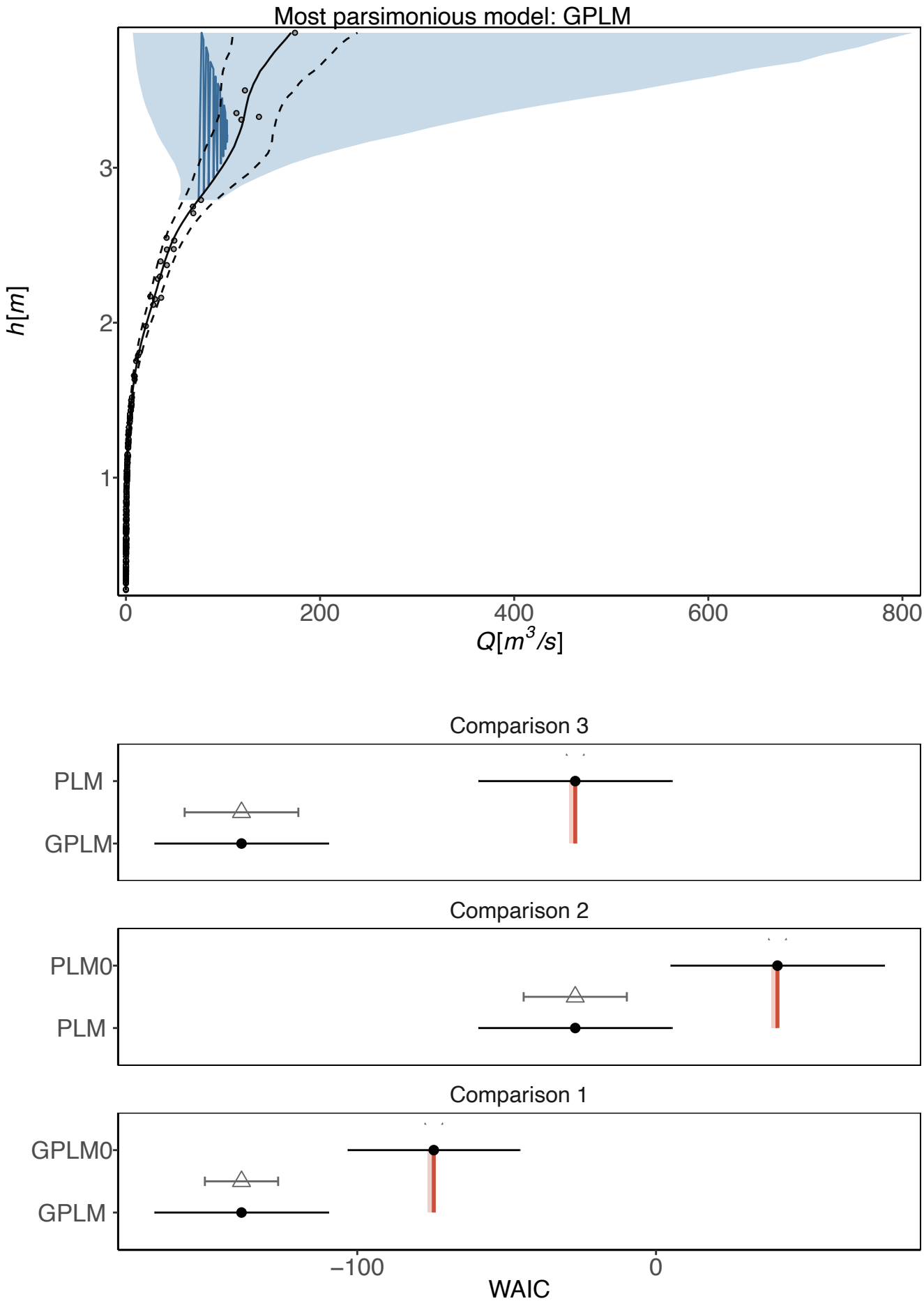
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	0.42	[0.29; 0.58]	2357	1.00
b	4.71	[4.42; 5.01]	2170	1.00
c	–0.23	[–0.30; –0.16]	2346	1.00
σ_η	0.95	[0.48; 1.61]	1283	1.01
η_1	–1.94	[–2.39; –1.46]	2189	1.00
η_2	–2.60	[–3.99; –1.91]	1166	1.01
η_3	–4.99	[–6.54; –3.96]	2243	1.00
η_4	–3.89	[–5.99; –2.57]	2189	1.00
η_5	–2.56	[–4.78; –1.12]	2304	1.00
η_6	–1.68	[–4.09; 0.05]	2577	1.00

Kelsey, Usa – PLM0



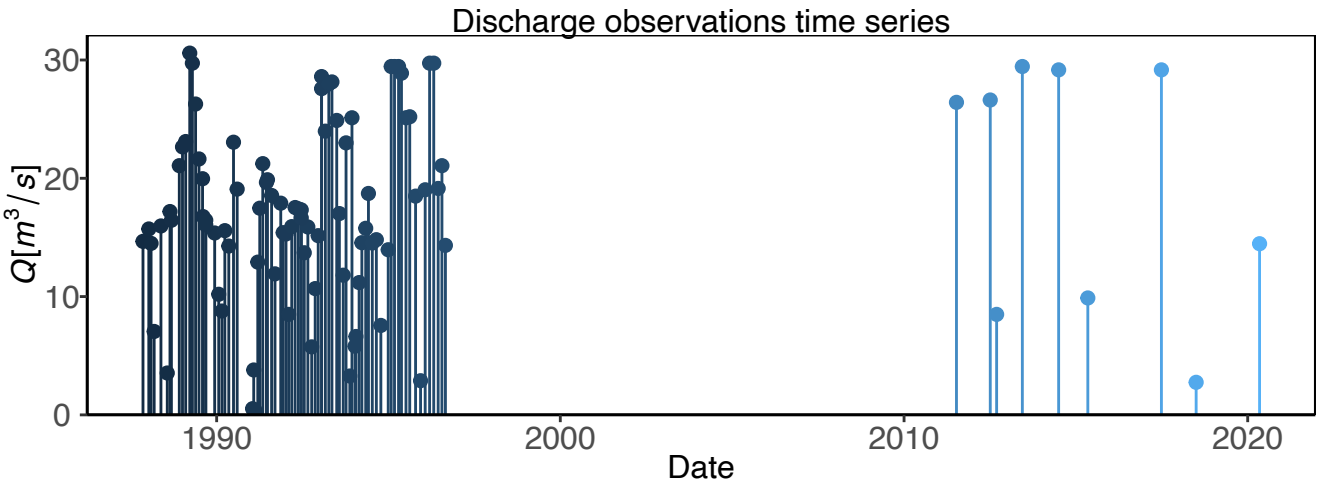
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	0.60	[0.44; 0.77]	9974	1.00
b	4.31	[4.07; 4.56]	10154	1.00
c	–0.16	[–0.22; –0.10]	9842	1.00
σ_ε	0.25	[0.23; 0.28]	9859	1.00

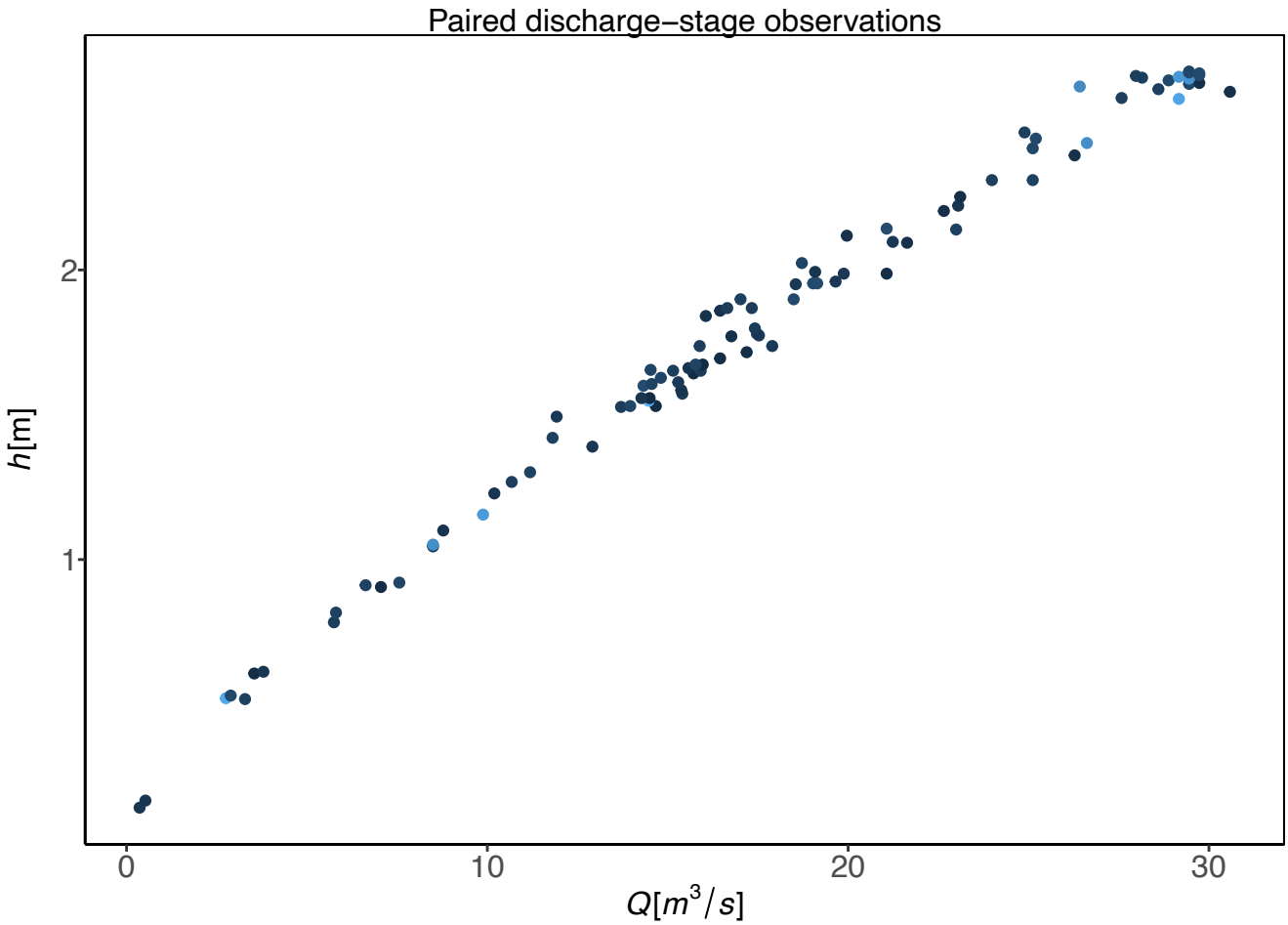
Power−law tournament results for Kelsey, Usa



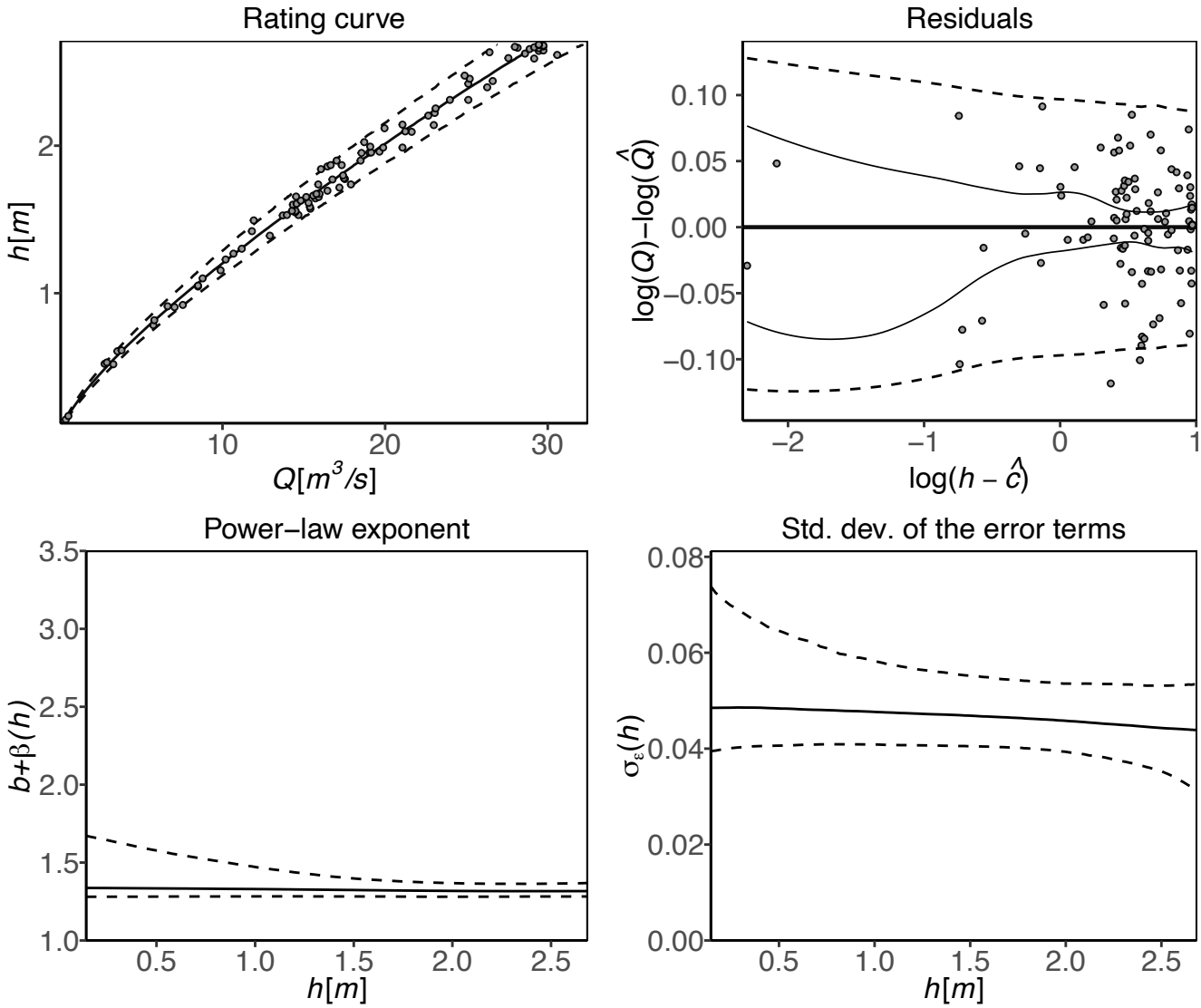
Station name:	Chicago Park
Location:	California, USA
Station number:	11421780
Number of observations:	94
Start date:	1987–11–10
End date:	2020–05–06
Max. discharge (m^3/s):	30.6
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	1.19	0.22
GPLM0	2.46	0.12
PLM	0.00	0.41
PLM0	0.95	0.25



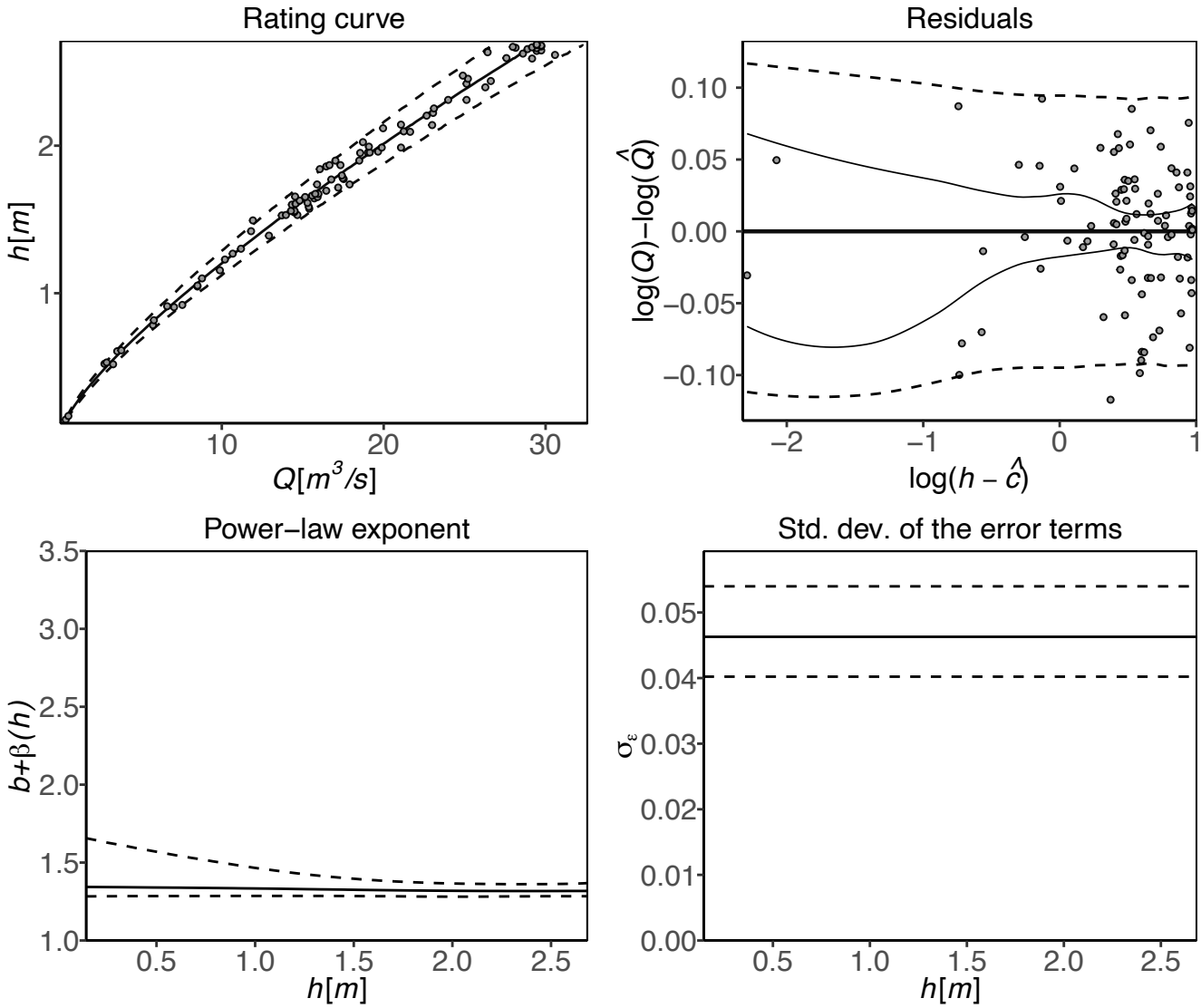


Chicago Park, Usa – GPLM



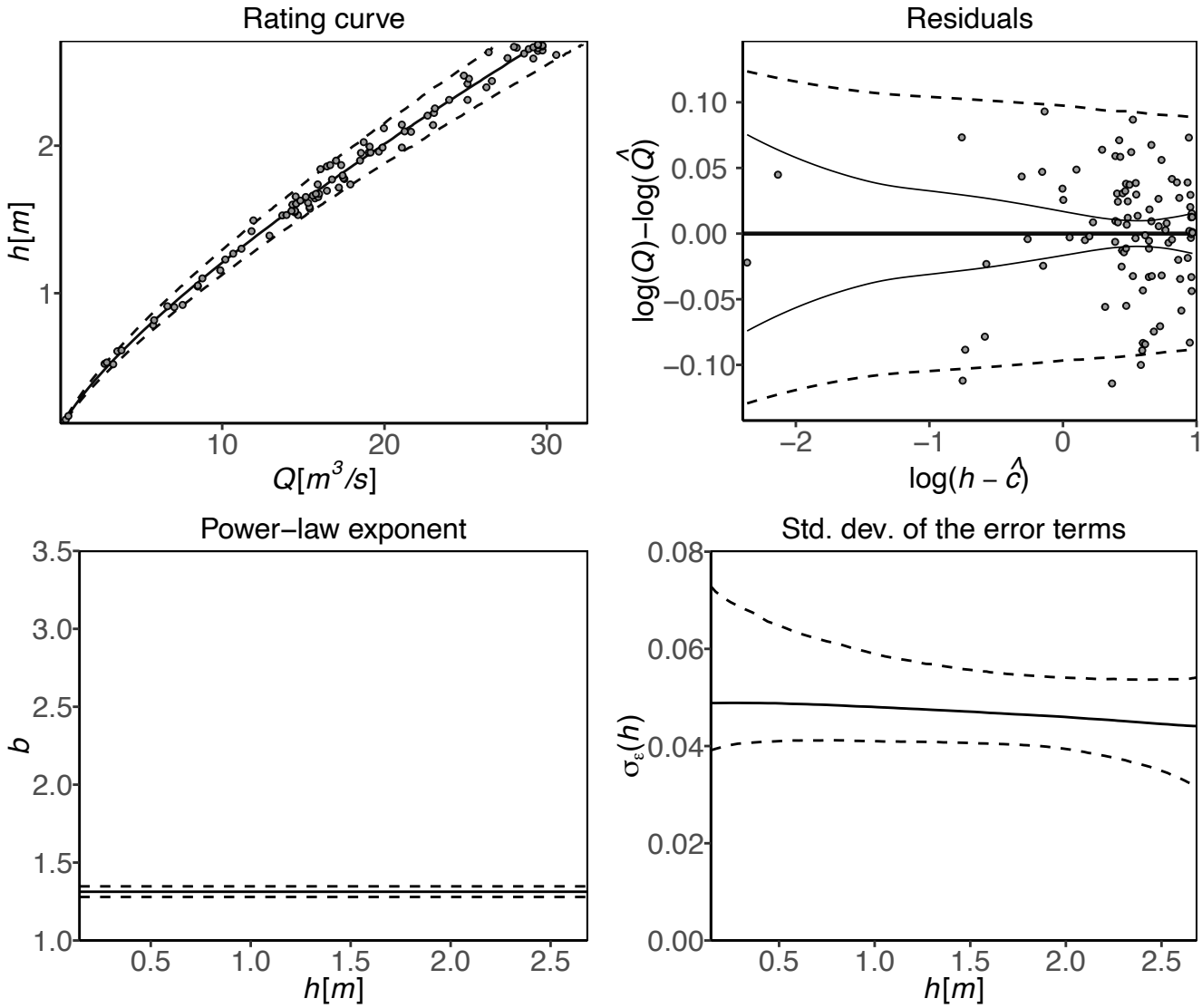
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.18	[7.58; 8.46]	1895	1.01
b	1.83	[1.83; 1.84]	4750	1.00
c	0.04	[−0.02; 0.06]	1532	1.02
σ_β	0.36	[0.18; 0.81]	1619	1.00
ϕ_β	29.03	[2.39; 10876.79]	759	1.14
σ_η	0.11	[0.00; 0.46]	901	1.02
η_1	−6.05	[−6.46; −5.21]	1382	1.01
η_2	−6.09	[−7.92; −4.38]	1408	1.00
η_3	−6.37	[−8.86; −3.89]	1381	1.00
η_4	−6.75	[−9.77; −3.66]	1406	1.00
η_5	−7.21	[−10.50; −3.31]	1402	1.01
η_6	−7.61	[−11.31; −3.07]	1408	1.01

Chicago Park, Usa – GPLM0



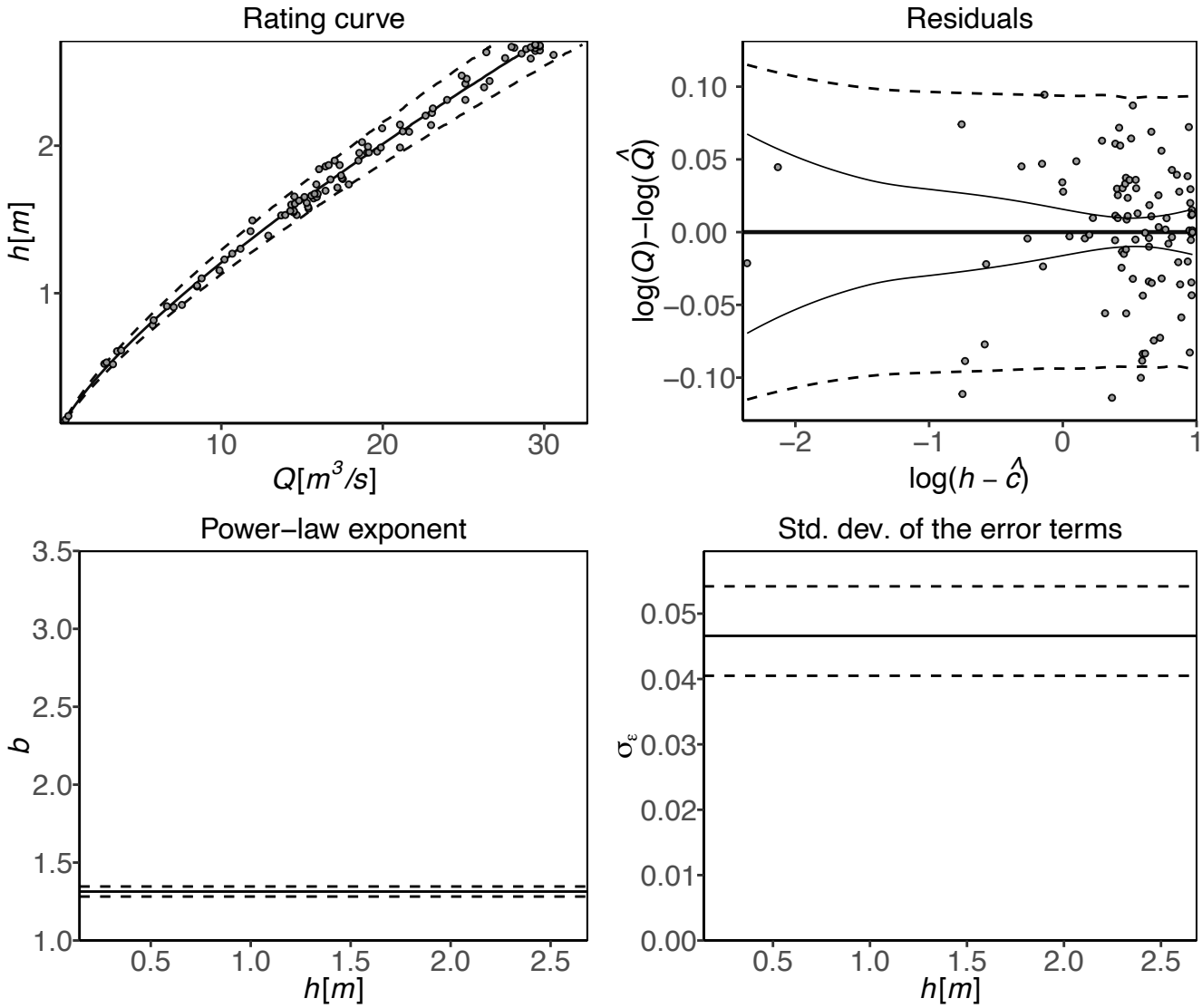
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.17	[7.61; 8.44]	3021	1.00
b	1.83	[1.83; 1.84]	7621	1.00
c	0.04	[–0.02; 0.06]	2160	1.00
σ_ε	0.05	[0.04; 0.05]	3462	1.00
σ_β	0.60	[0.43; 0.91]	3686	1.00
ϕ_β	23.44	[2.21; 5227.03]	852	1.02

Chicago Park, Usa – PLM



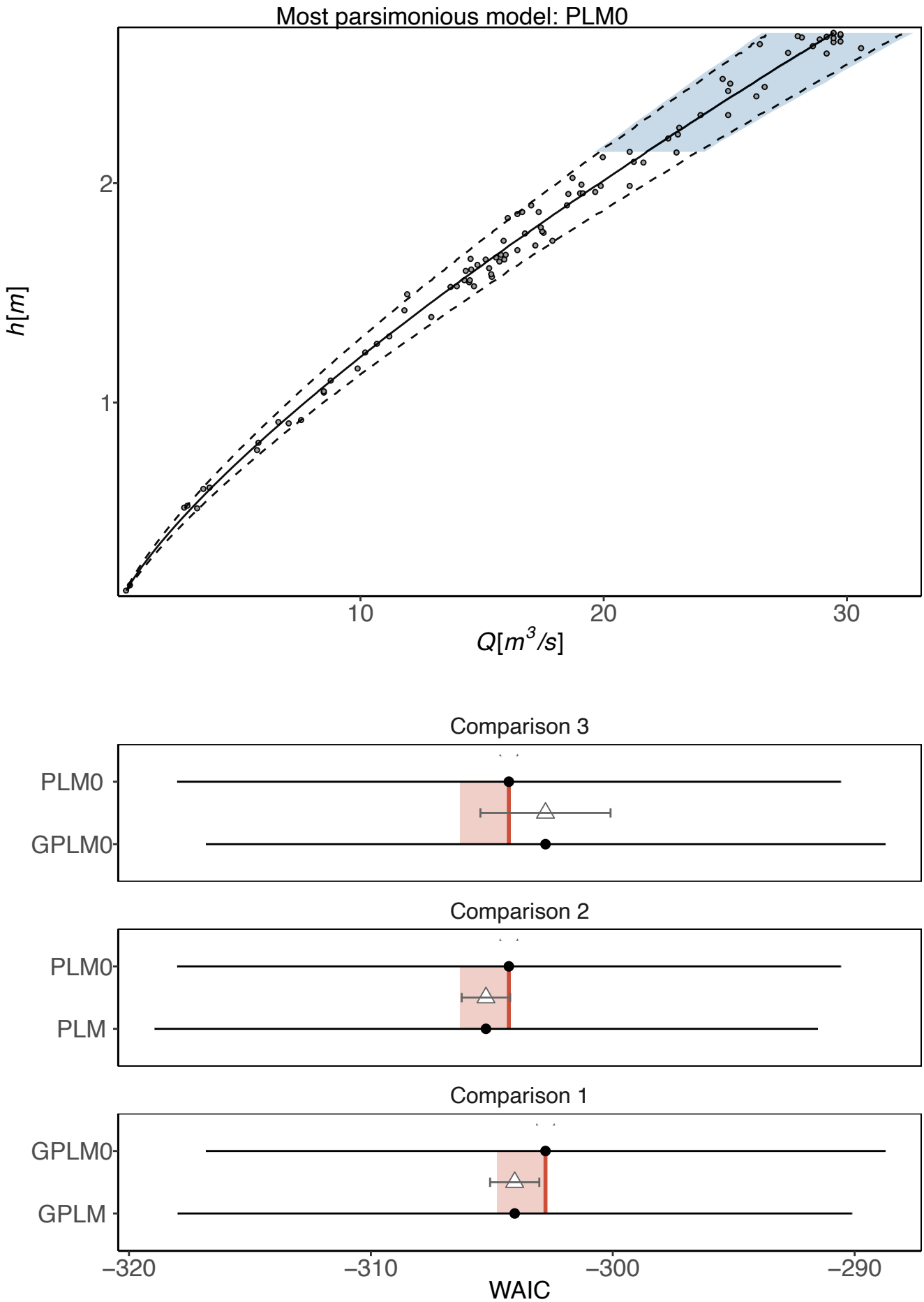
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.25	[8.01; 8.49]	2659	1.00
b	1.31	[1.28; 1.35]	2884	1.00
c	0.05	[0.04; 0.06]	2323	1.00
σ_η	0.12	[0.00; 0.48]	952	1.01
η_1	–6.04	[–6.48; –5.24]	2105	1.00
η_2	–6.03	[–7.88; –4.30]	1967	1.01
η_3	–6.40	[–8.80; –3.93]	1880	1.00
η_4	–6.74	[–9.58; –3.71]	1965	1.00
η_5	–7.19	[–10.39; –3.50]	2115	1.00
η_6	–7.56	[–11.12; –3.29]	2177	1.00

Chicago Park, Usa – PLM0



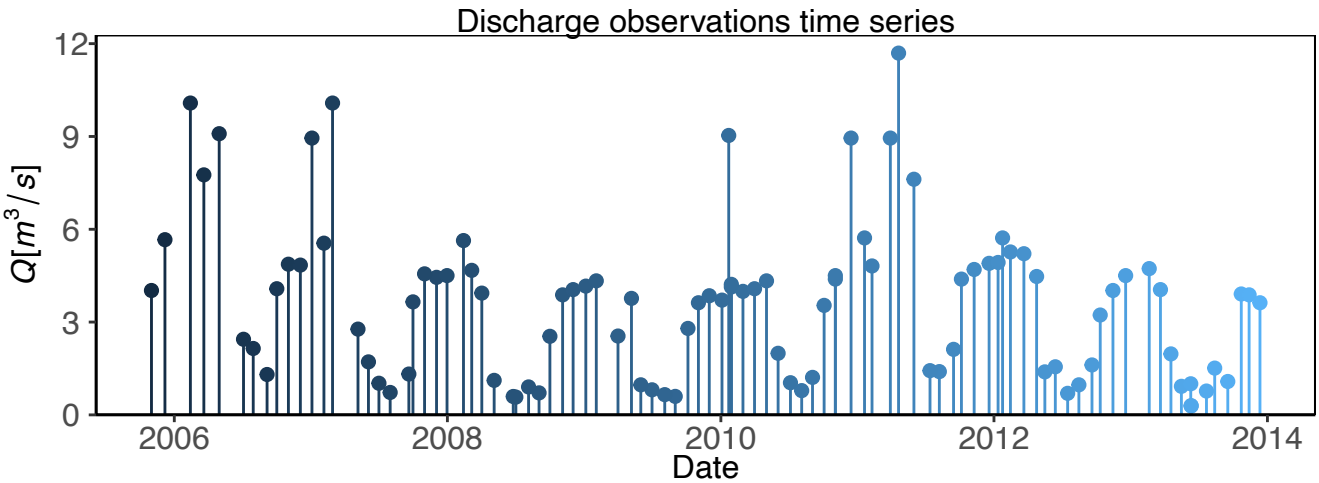
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.24	[8.02; 8.46]	9845	1.00
b	1.31	[1.28; 1.35]	9967	1.00
c	0.05	[0.04; 0.06]	9204	1.00
σ_ε	0.05	[0.04; 0.05]	9147	1.00

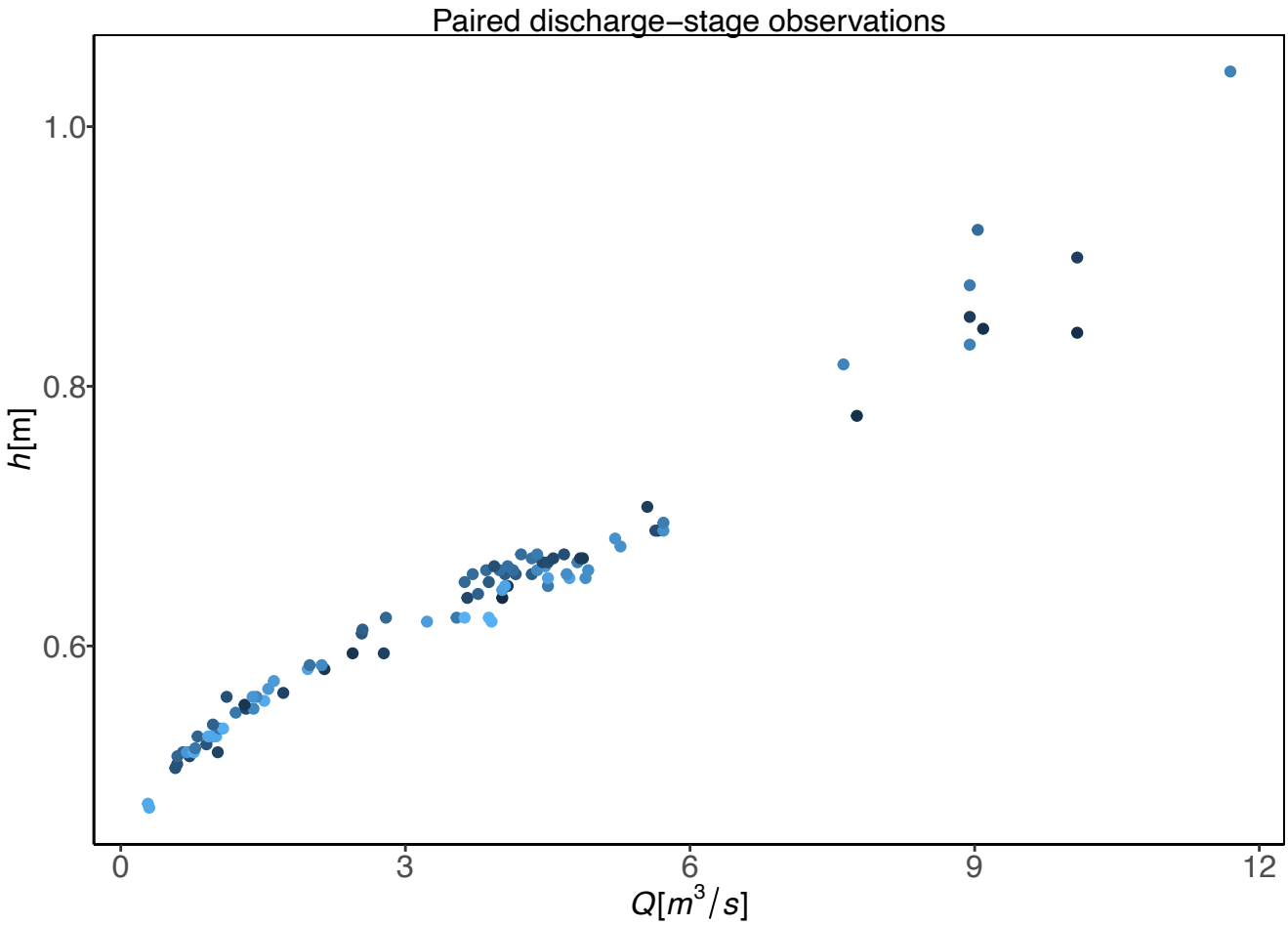
Power−law tournament results for Chicago Park, Usa



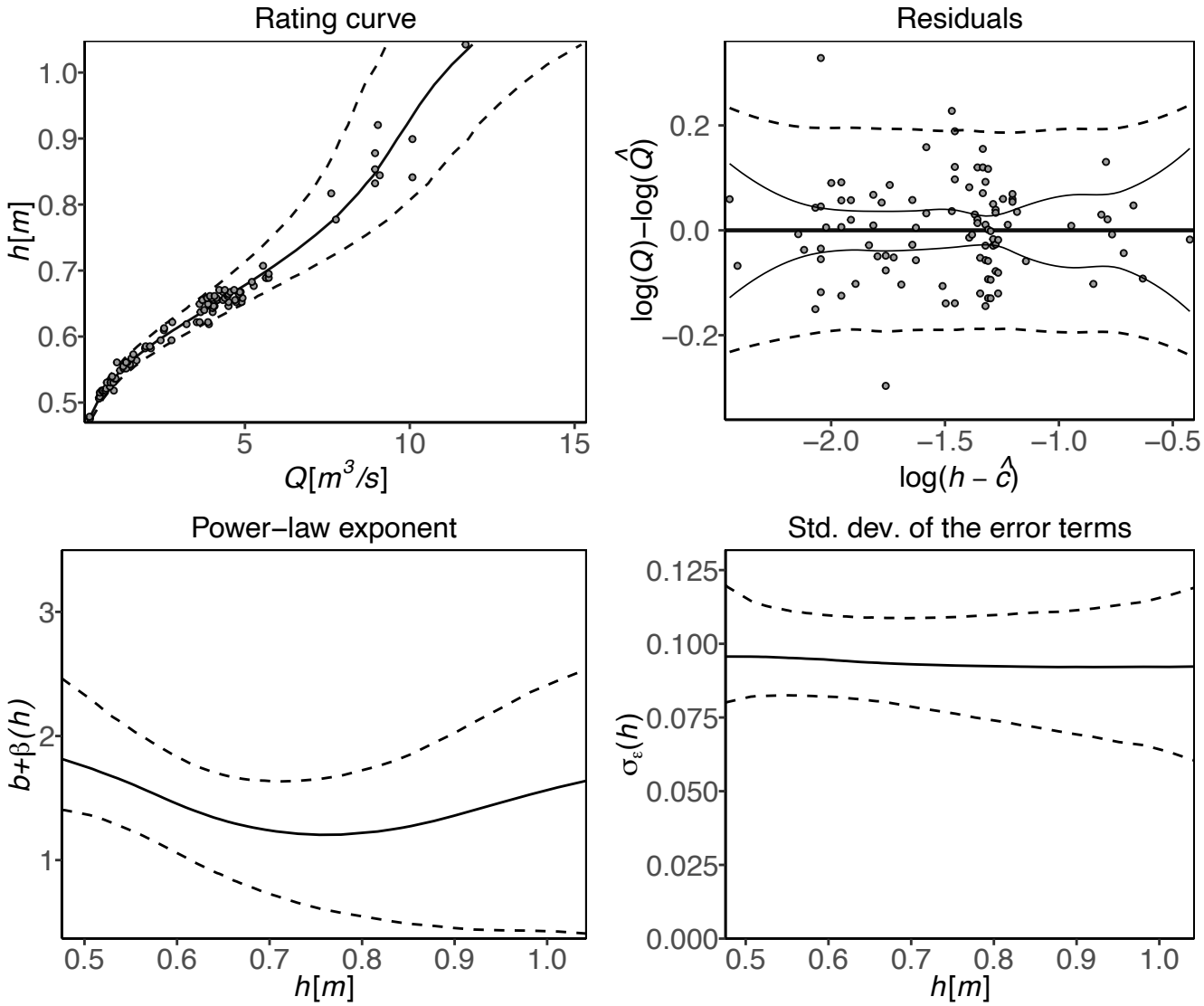
Station name:	Shasta
Location:	California, USA
Station number:	11517000
Number of observations:	97
Start date:	2005–11–01
End date:	2013–12–12
Max. discharge (m^3/s):	11.7
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.51
GPLM0	0.11	0.49
PLM	56.84	0.00
PLM0	86.77	0.00



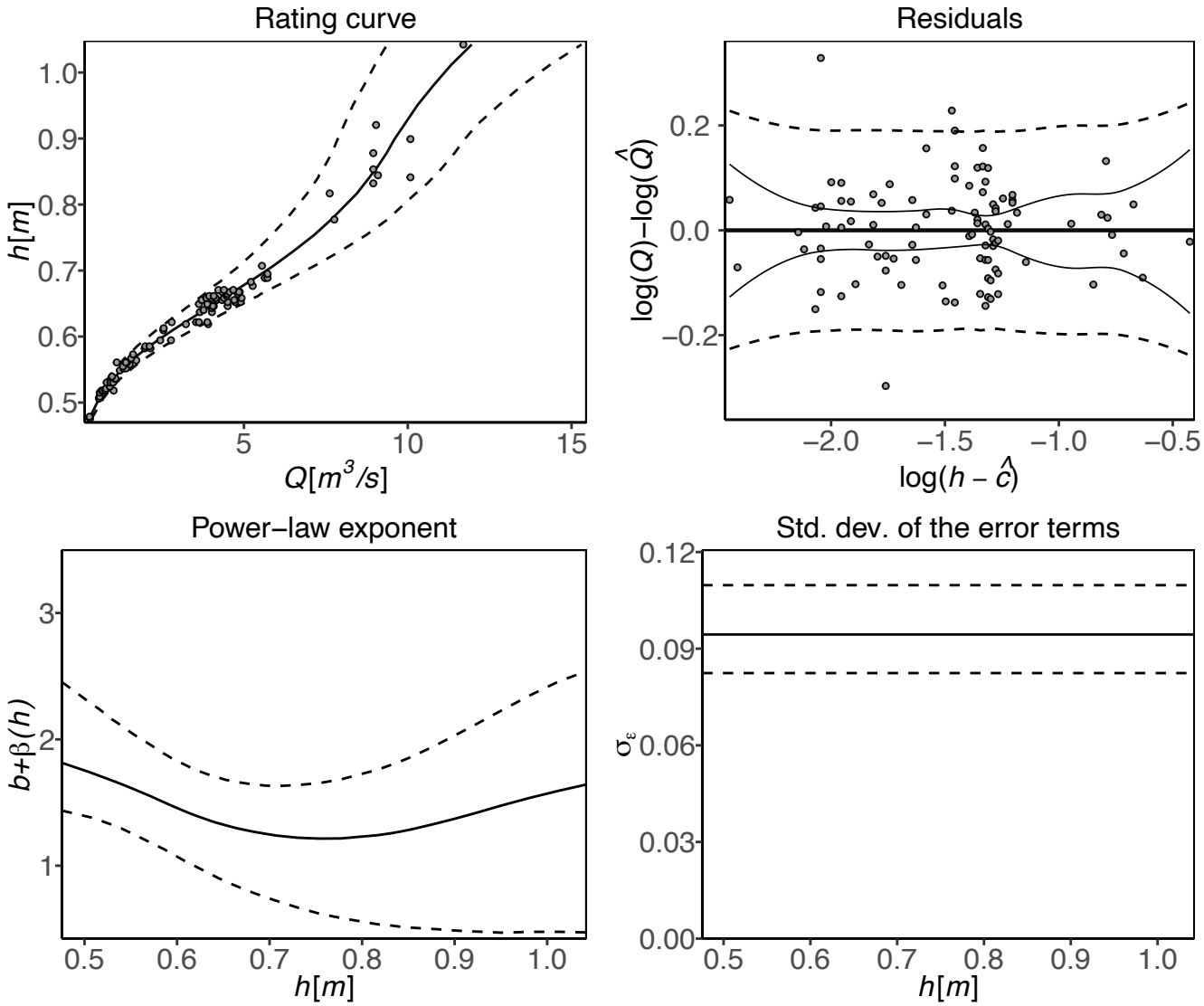


Shasta, Usa – GPLM



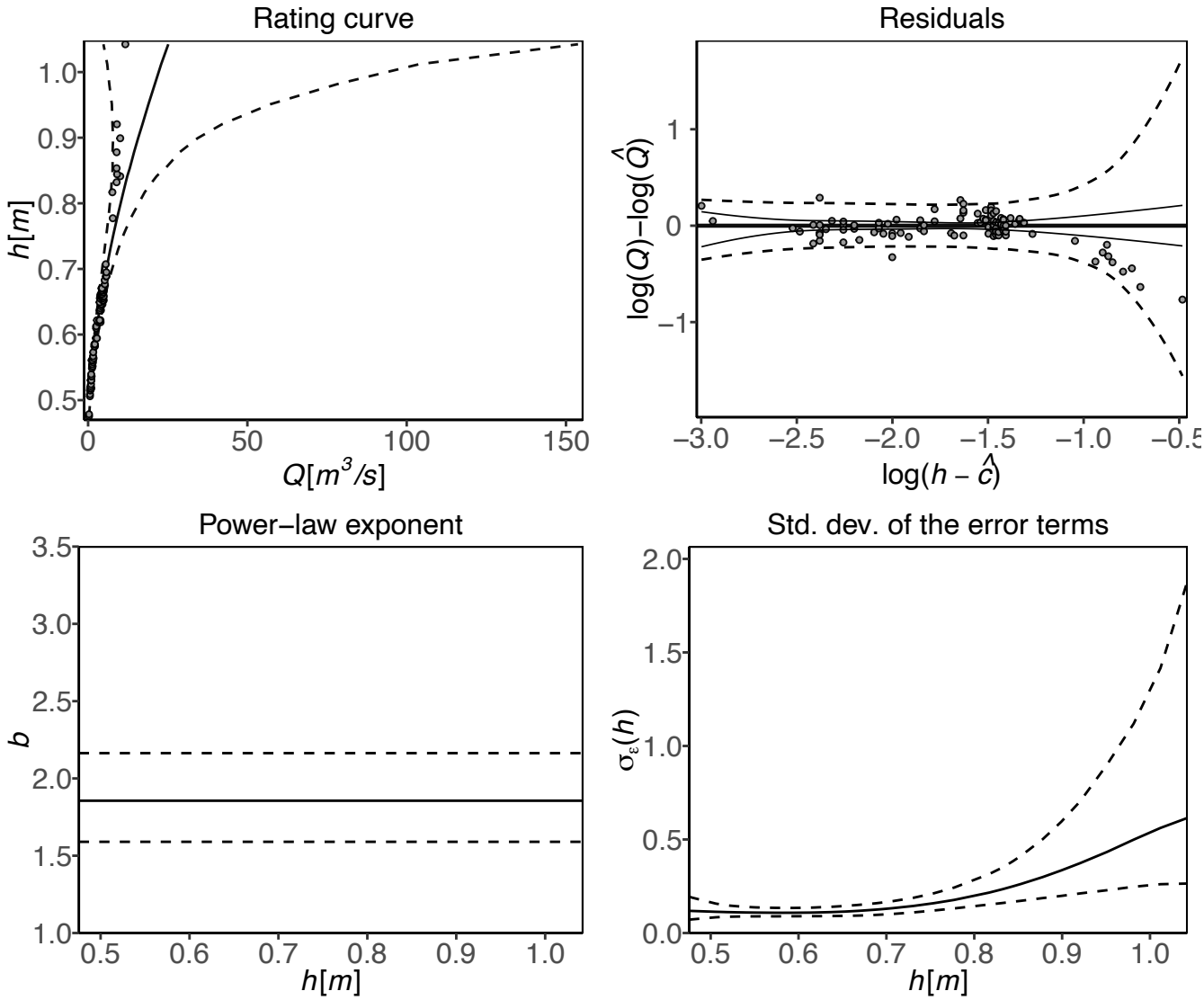
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	23.49	[12.90; 37.56]	4804	1.00
b	1.83	[1.83; 1.84]	8832	1.00
c	0.39	[0.29; 0.43]	1762	1.00
σ_β	0.49	[0.22; 1.17]	2387	1.00
ϕ_β	0.35	[0.18; 0.65]	2253	1.00
σ_η	0.09	[0.00; 0.44]	1440	1.00
η_1	–4.69	[–5.05; –4.24]	1989	1.00
η_2	–4.69	[–6.52; –2.97]	1921	1.00
η_3	–5.03	[–7.39; –2.43]	2264	1.00
η_4	–5.22	[–8.21; –1.91]	2168	1.00
η_5	–5.28	[–8.77; –1.45]	2185	1.00
η_6	–5.28	[–9.36; –1.00]	2277	1.00

Shasta, Usa – GPLM0



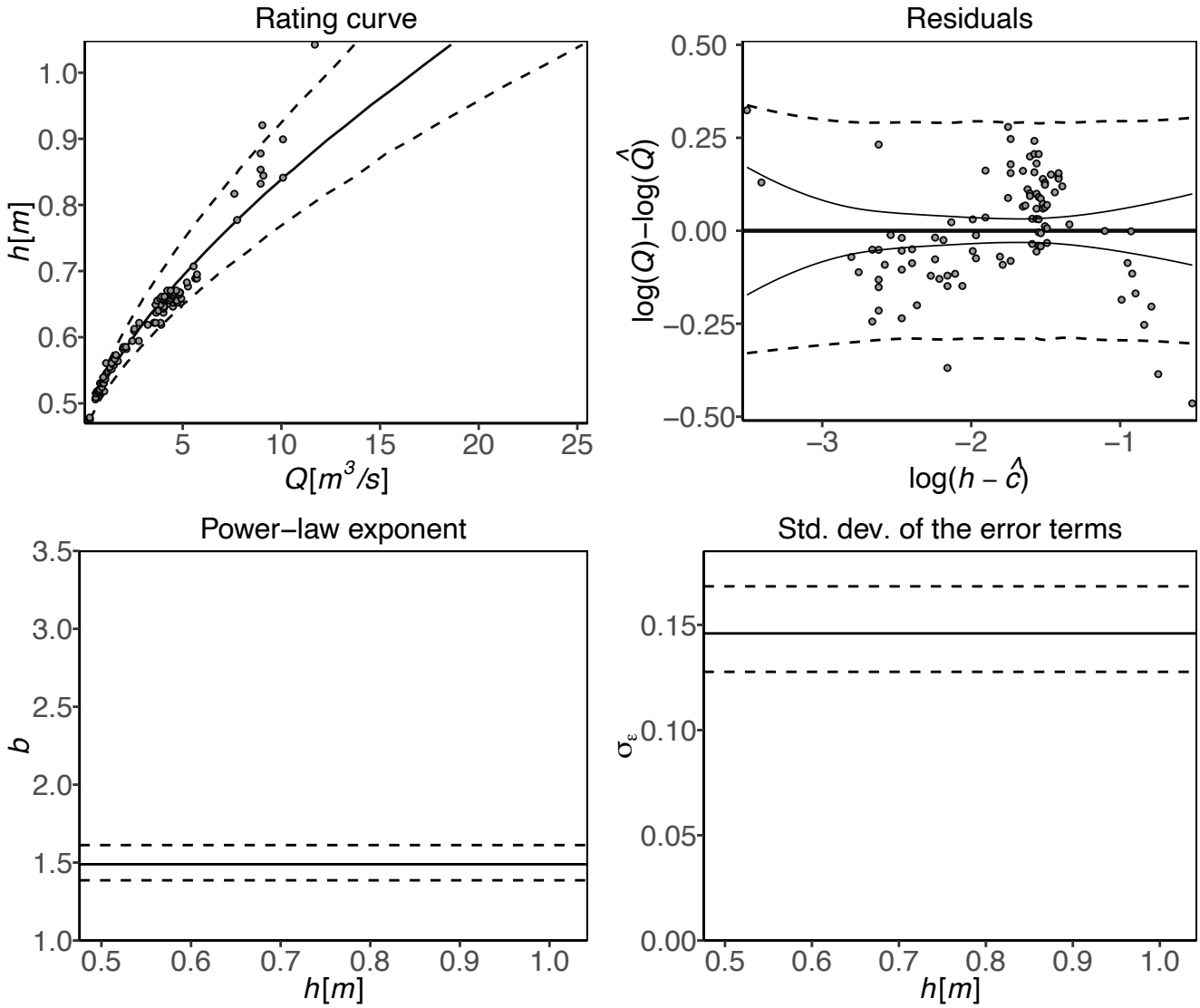
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	23.75	[13.17; 37.59]	9174	1.00
b	1.83	[1.83; 1.84]	11110	1.00
c	0.39	[0.29; 0.43]	4938	1.00
σ_ε	0.09	[0.08; 0.11]	5161	1.00
σ_β	0.69	[0.46; 1.05]	6270	1.00
ϕ_β	0.35	[0.18; 0.65]	5327	1.00

Shasta, Usa – PLM



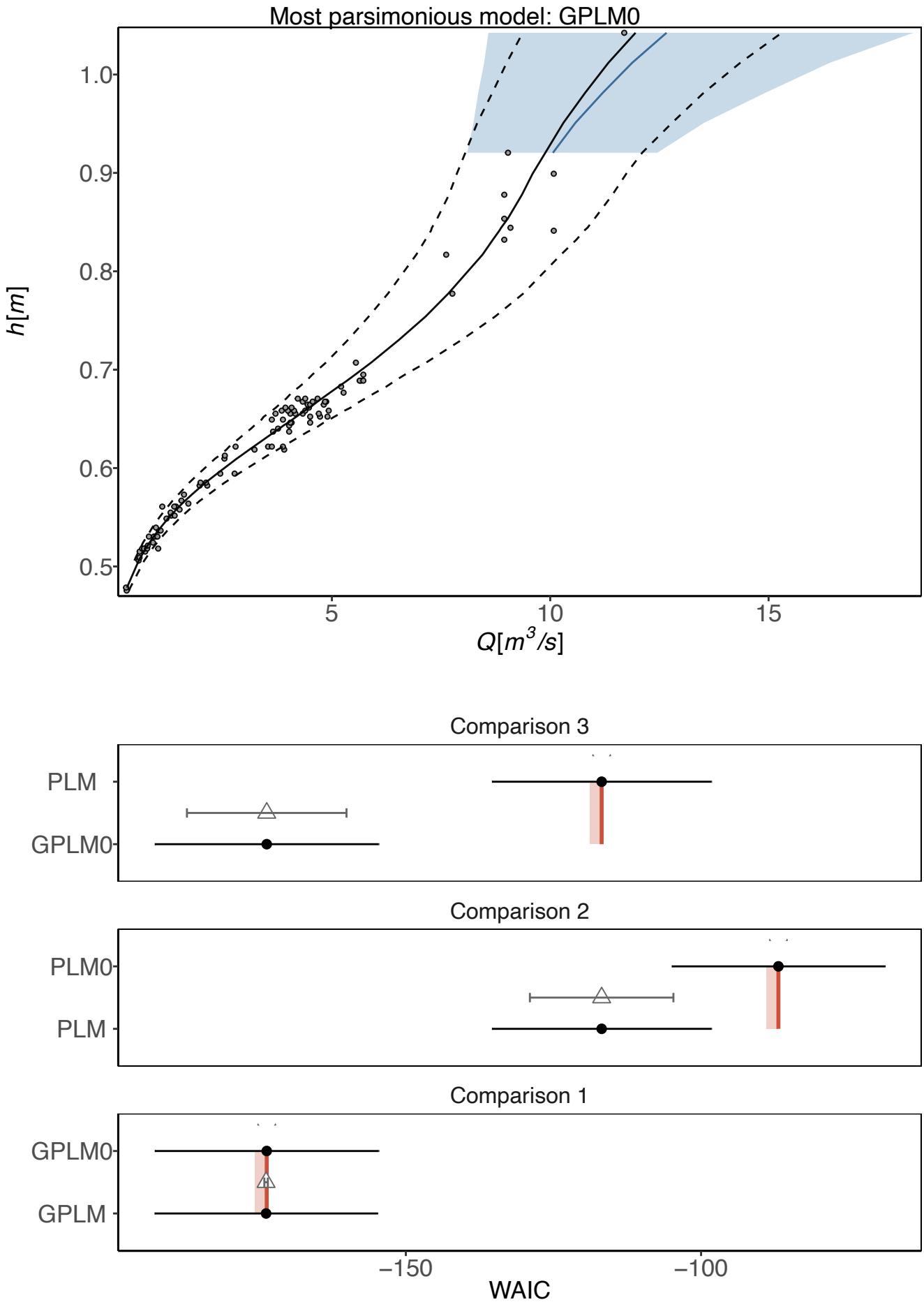
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	63.45	[47.28; 84.54]	1971	1.00
b	1.86	[1.59; 2.16]	1962	1.00
c	0.43	[0.40; 0.44]	1877	1.00
σ_η	0.85	[0.42; 1.48]	1487	1.00
η_1	–4.27	[–5.29; –3.27]	1936	1.01
η_2	–4.48	[–5.46; –3.57]	1753	1.00
η_3	–4.71	[–5.69; –3.33]	2051	1.00
η_4	–2.42	[–3.72; –0.78]	2137	1.00
η_5	–0.81	[–2.47; 1.29]	2615	1.00
η_6	–0.35	[–2.26; 2.23]	2517	1.00

Shasta, Usa – PLM0



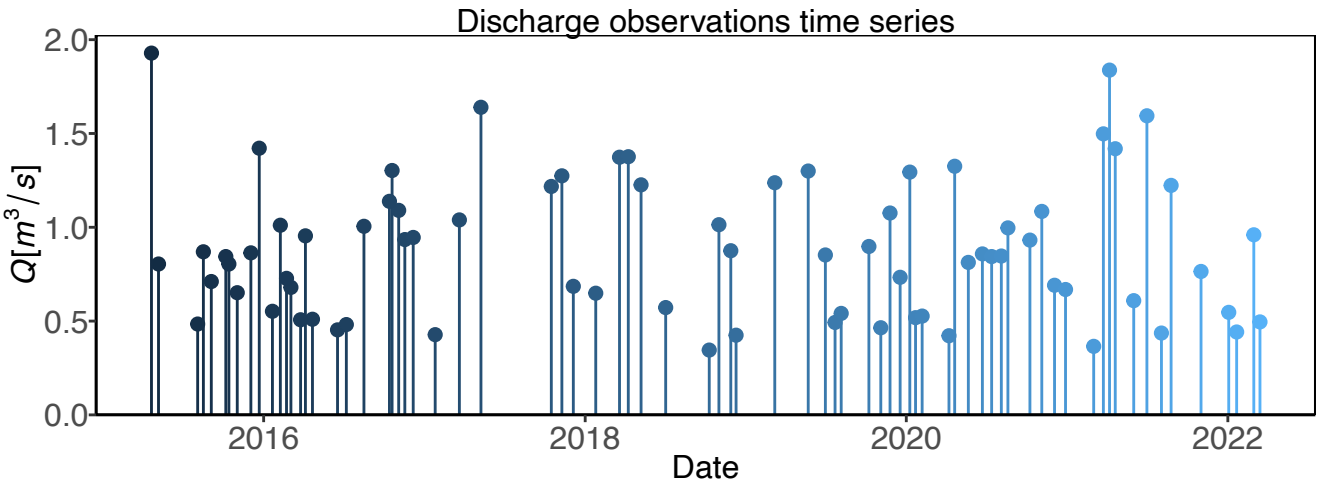
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	40.17	[35.28; 46.16]	12019	1.00
b	1.49	[1.39; 1.61]	10821	1.00
c	0.45	[0.44; 0.45]	10074	1.00
σ_ε	0.15	[0.13; 0.17]	9393	1.00

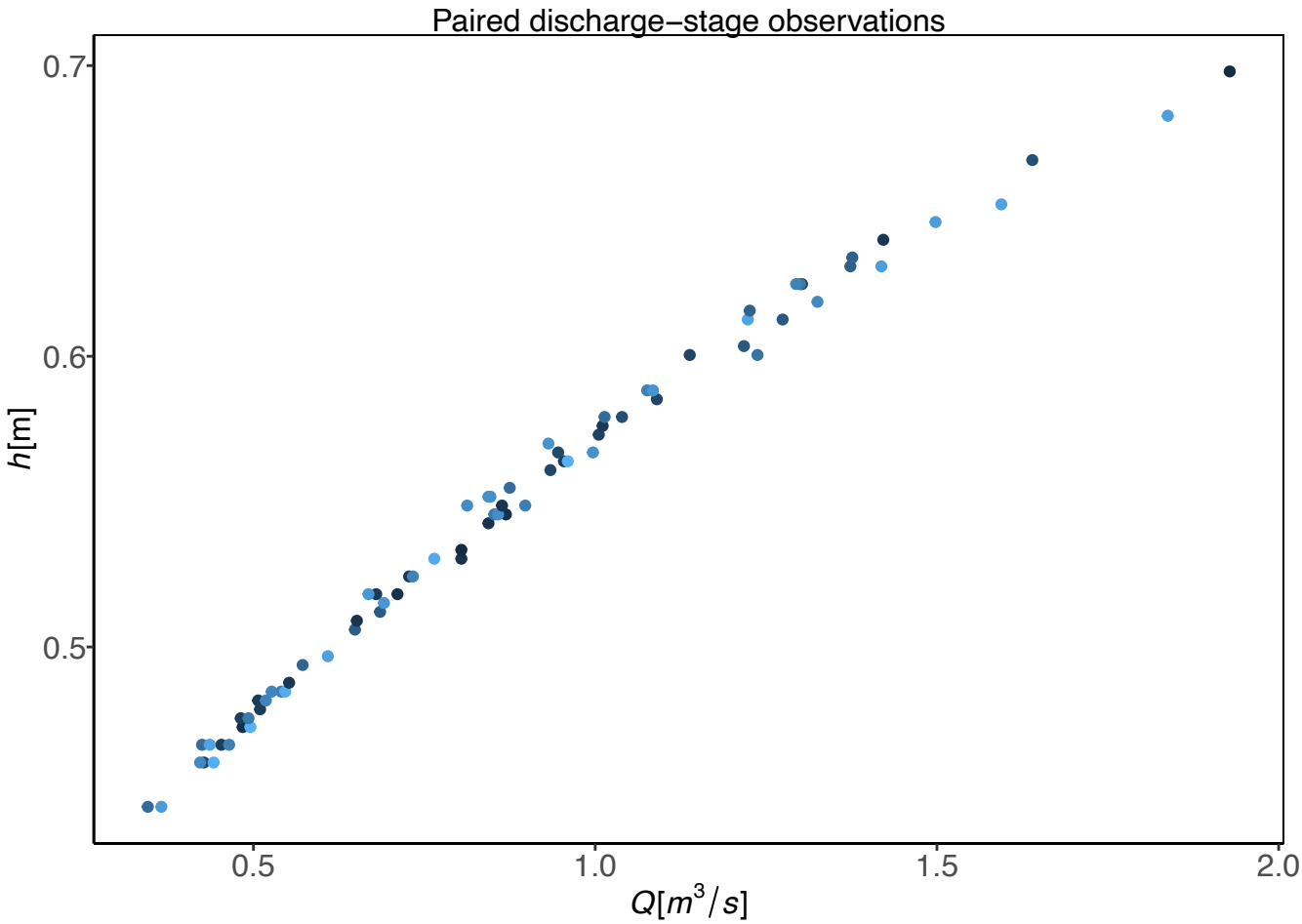
Power−law tournament results for Shasta, Usa



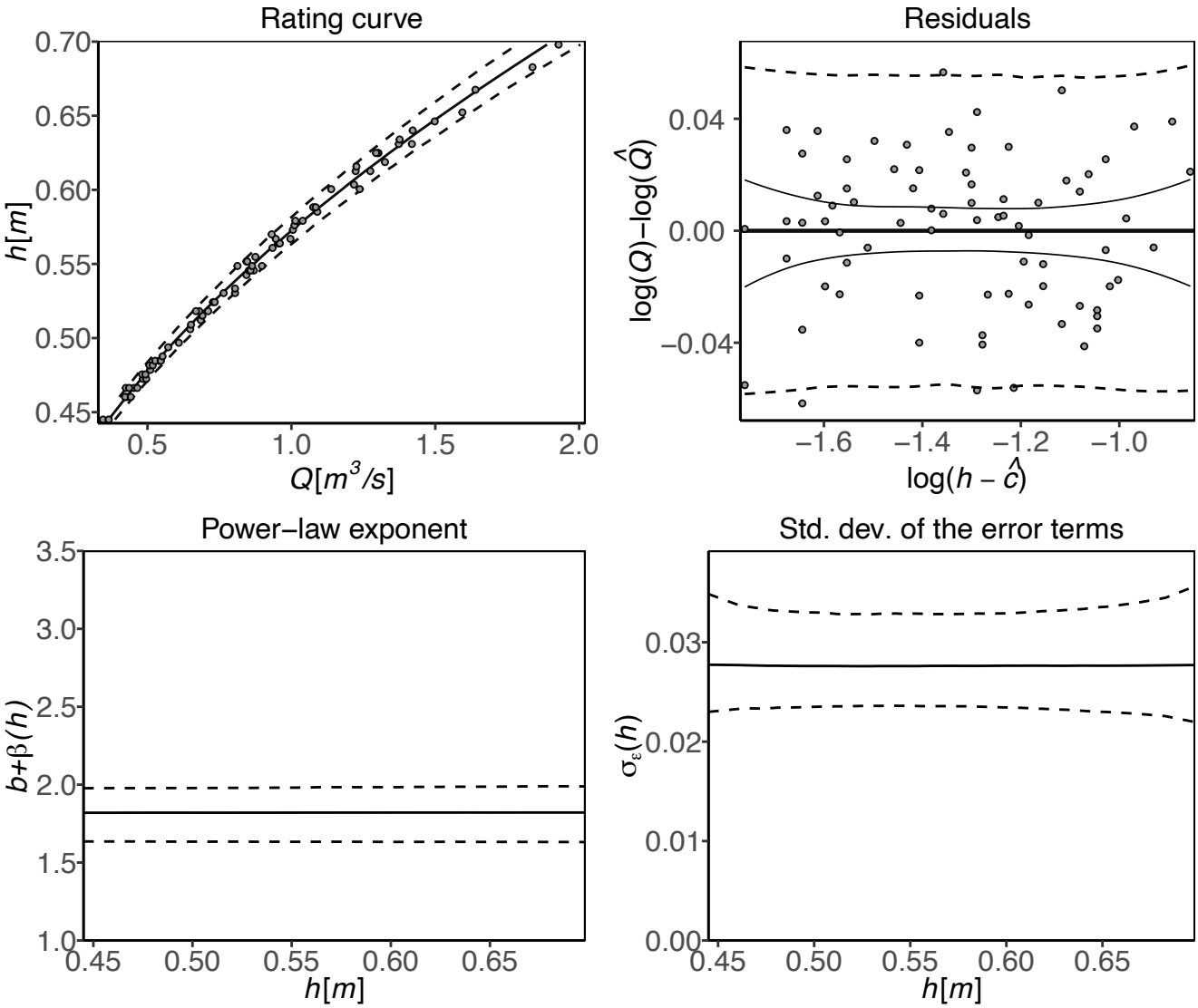
Station name:	Ypsilanti
Location:	California, USA
Station number:	09526200
Number of observations:	76
Start date:	2015–04–21
End date:	2022–03–15
Max. discharge (m^3/s):	1.9
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.14	0.32
GPLM0	0.00	0.34
PLM	1.44	0.16
PLM0	1.24	0.18



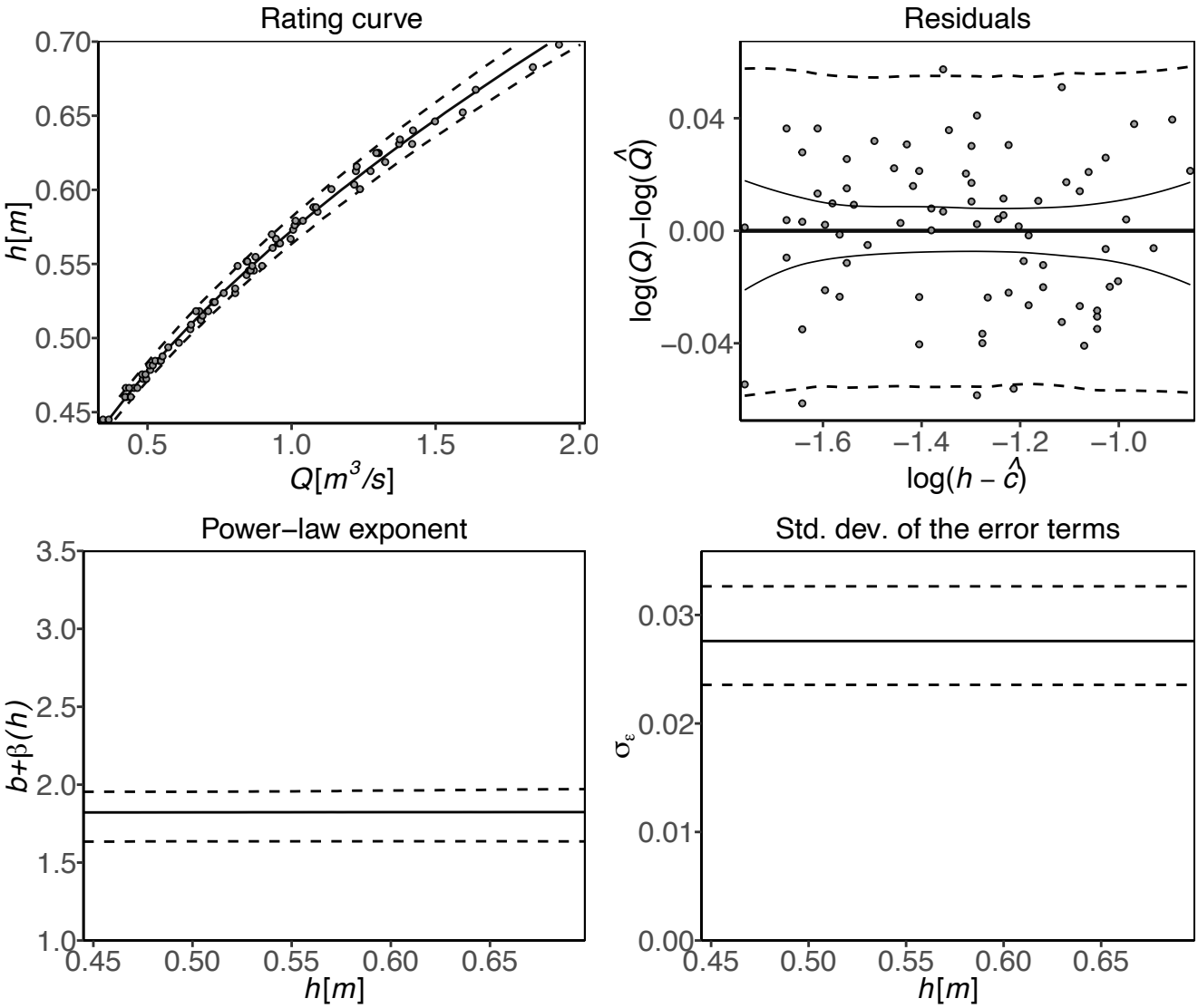


Ypsilanti, Usa – GPLM



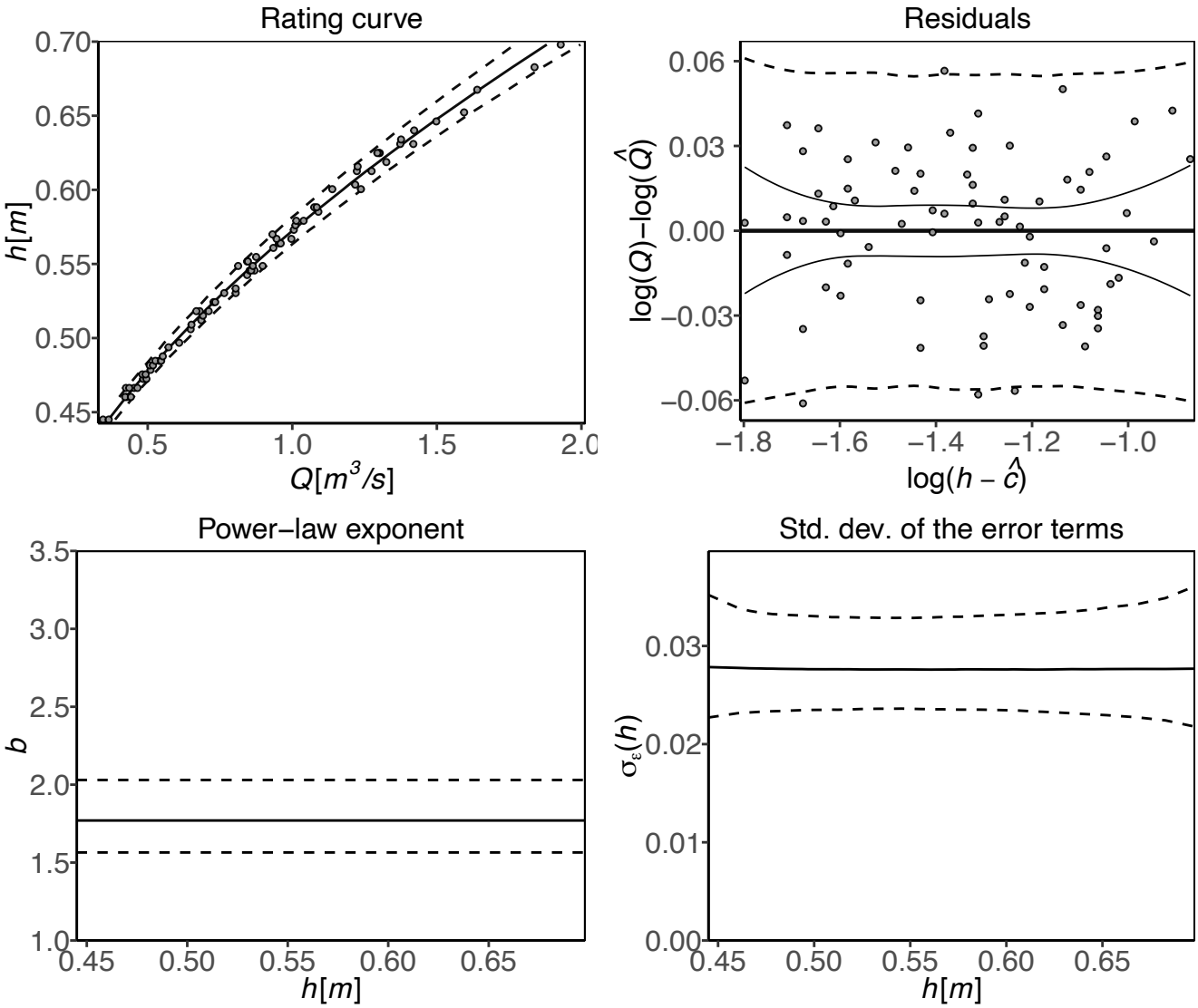
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.93	[8.20; 9.78]	3673	1.00
b	1.83	[1.83; 1.84]	8134	1.00
c	0.27	[0.25; 0.30]	884	1.01
σ_β	0.09	[0.00; 0.48]	1760	1.01
ϕ_β	17.91	[0.57; 10787.22]	1415	1.00
σ_η	0.07	[0.00; 0.34]	1453	1.00
η_1	−7.17	[−7.54; −6.71]	1823	1.00
η_2	−7.25	[−9.07; −5.37]	1978	1.00
η_3	−7.24	[−9.78; −4.63]	2023	1.00
η_4	−7.25	[−10.24; −4.16]	2070	1.00
η_5	−7.24	[−10.76; −3.61]	2059	1.00
η_6	−7.17	[−11.23; −3.17]	1955	1.00

Ypsilanti, Usa – GPLM0



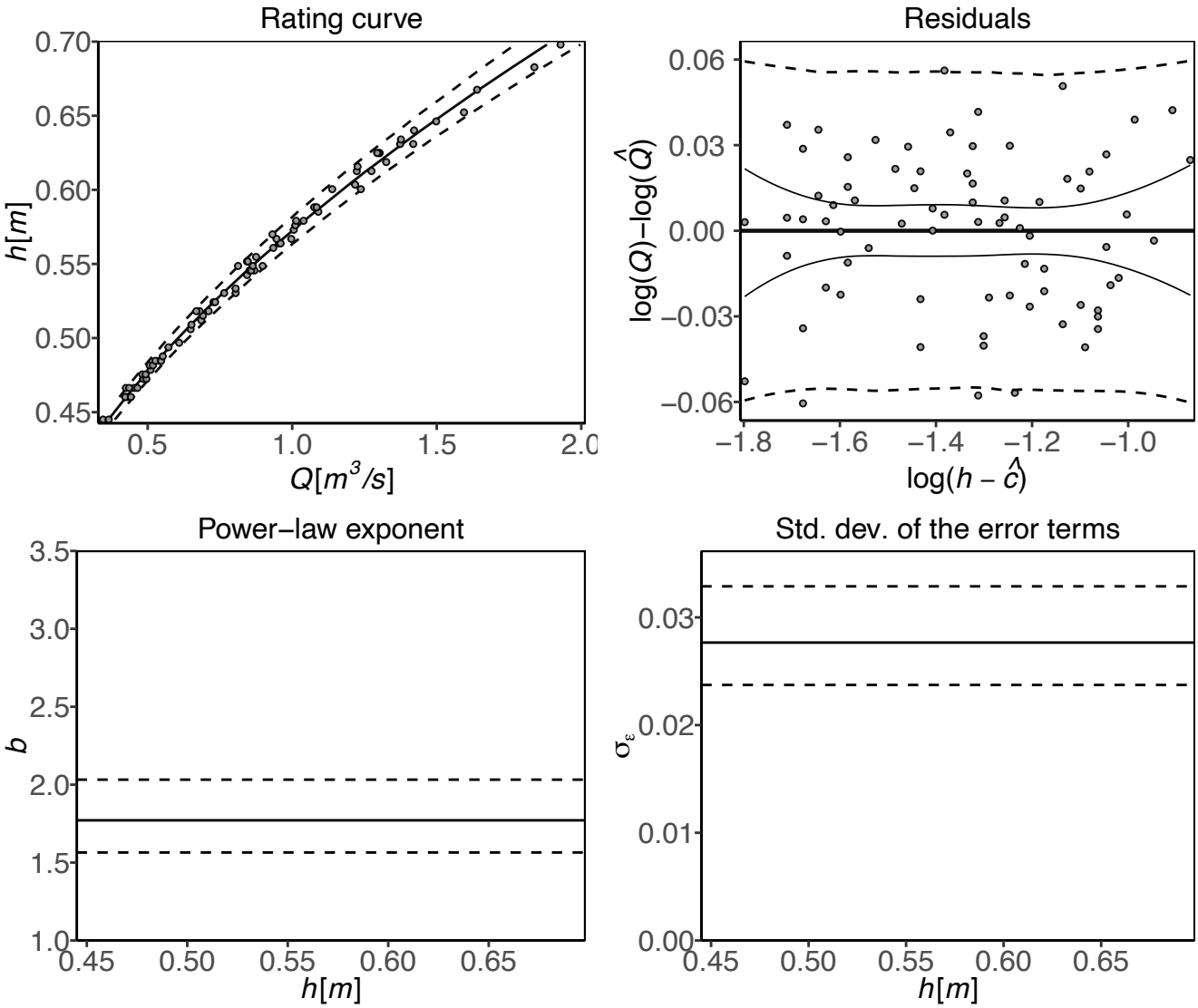
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.94	[8.24; 9.96]	5125	1.00
b	1.83	[1.83; 1.84]	10050	1.00
c	0.27	[0.25; 0.30]	1200	1.00
σ_ε	0.03	[0.02; 0.03]	4704	1.00
σ_β	0.29	[0.06; 0.69]	3166	1.00
ϕ_β	15.95	[0.48; 12760.13]	2491	1.00

Ypsilanti, Usa – PLM



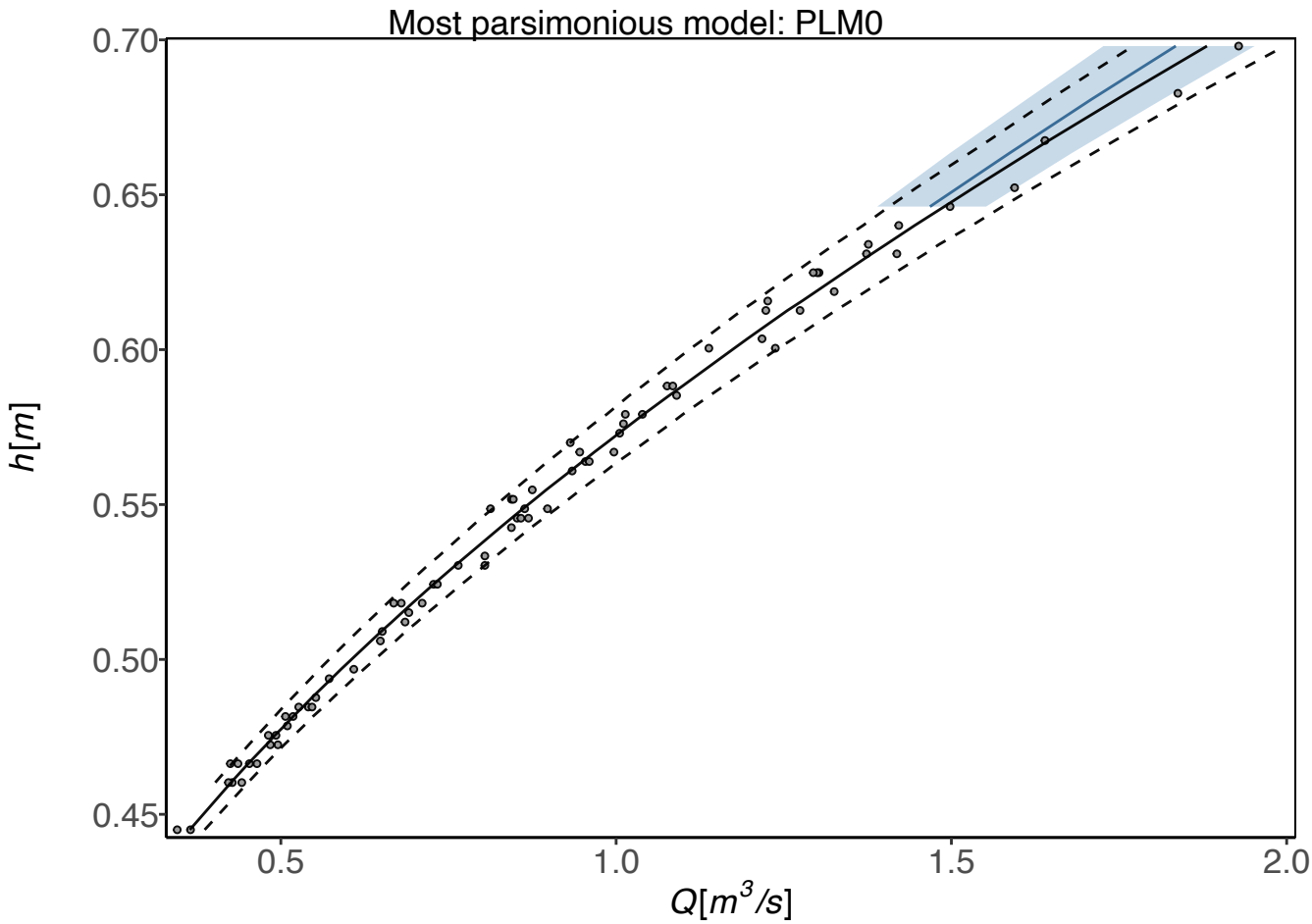
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.78	[8.02; 9.51]	2917	1.00
b	1.77	[1.56; 2.03]	2492	1.00
c	0.28	[0.24; 0.31]	2475	1.00
σ_η	0.07	[0.00; 0.36]	1584	1.00
η_1	–7.16	[–7.57; –6.69]	2243	1.00
η_2	–7.28	[–9.07; –5.41]	2621	1.00
η_3	–7.27	[–9.83; –4.77]	2640	1.00
η_4	–7.26	[–10.45; –4.23]	2608	1.00
η_5	–7.28	[–10.87; –3.74]	2881	1.00
η_6	–7.21	[–11.29; –3.31]	2785	1.00

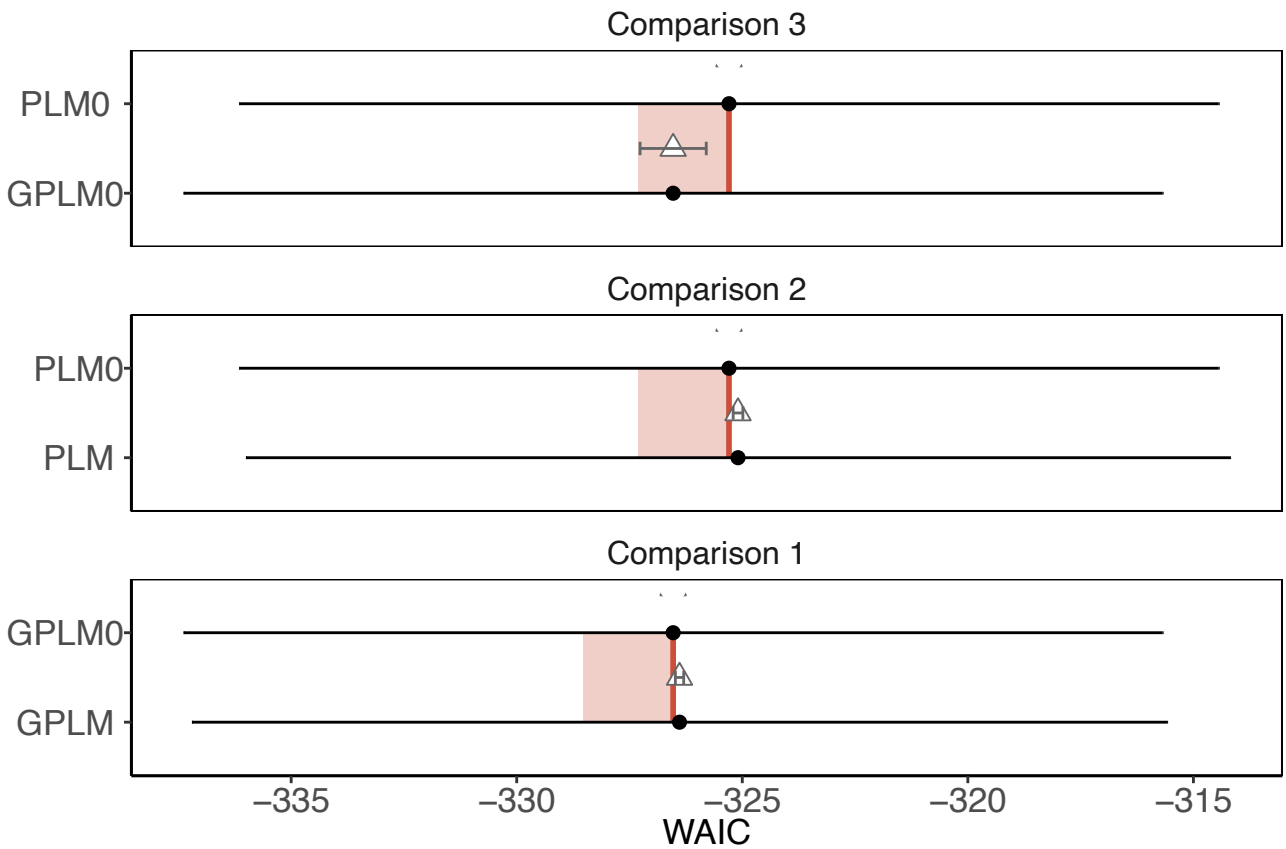
Ypsilanti, Usa – PLM0



	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.80	[8.06; 9.52]	10161	1.00
b	1.77	[1.56; 2.03]	9247	1.00
c	0.28	[0.24; 0.31]	9294	1.00
σ_ε	0.03	[0.02; 0.03]	8640	1.00

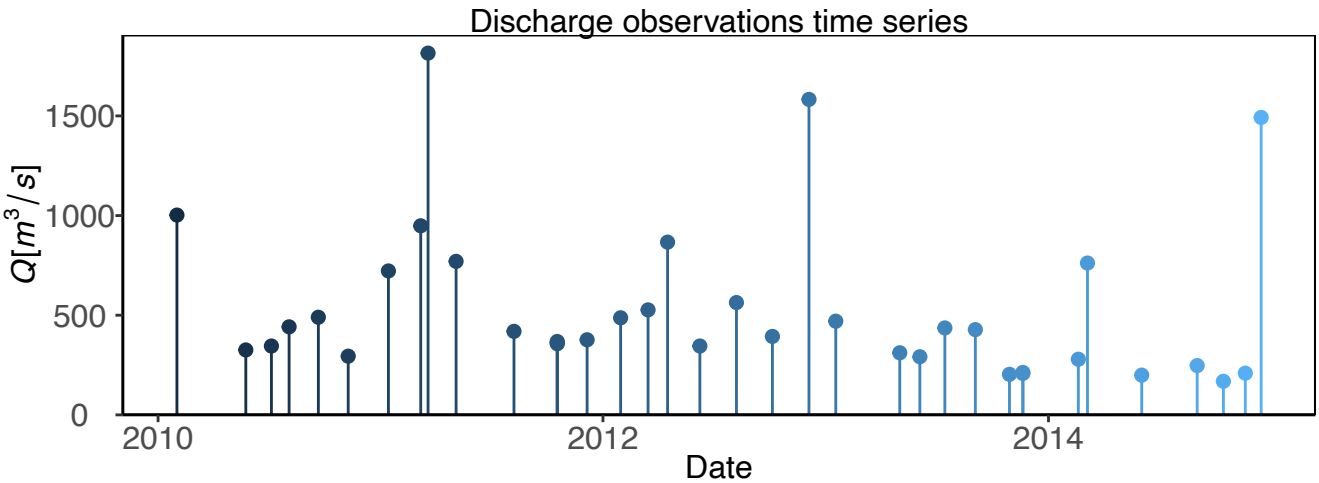
Power−law tournament results for Ypsilanti, Usa

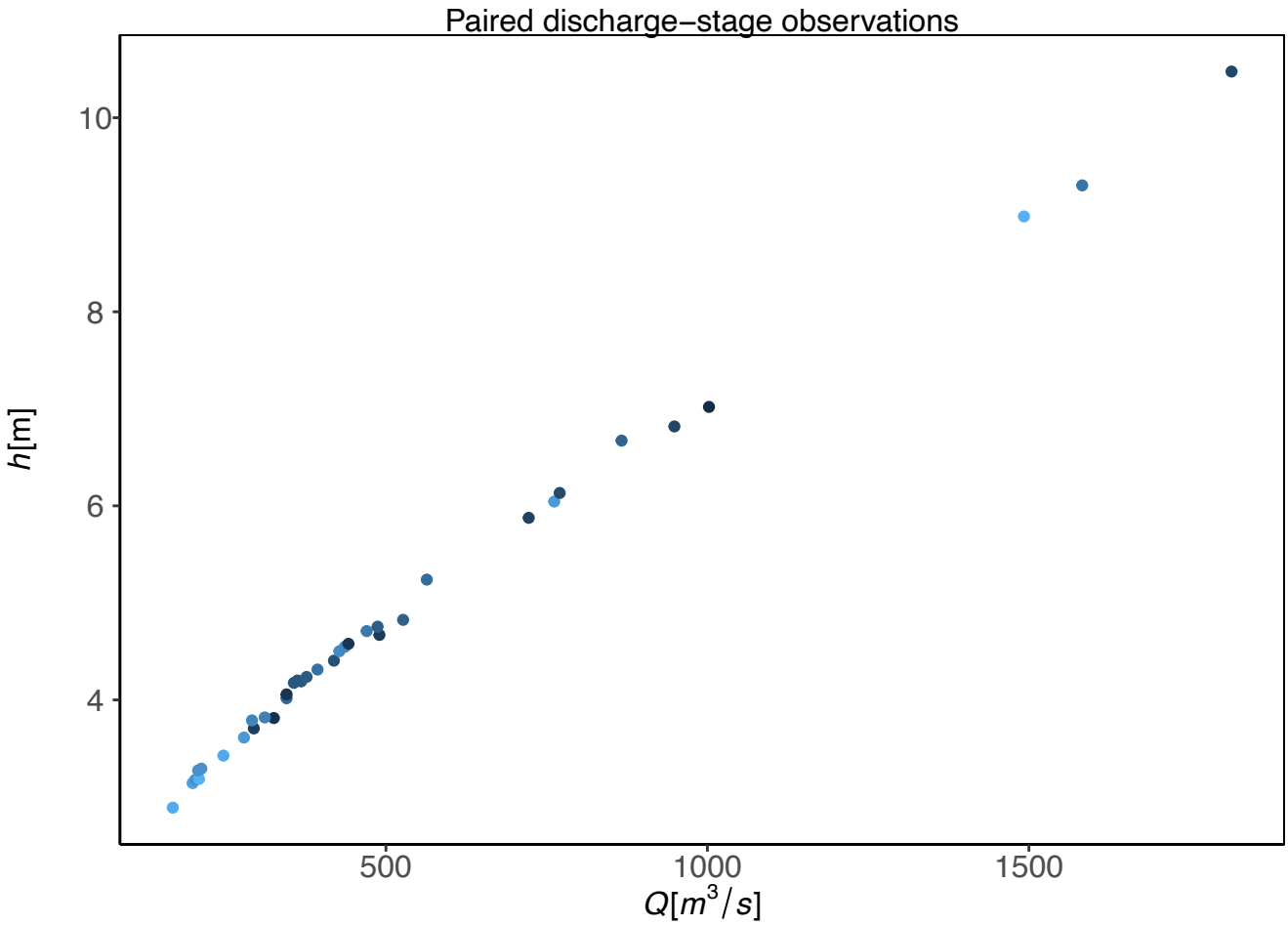




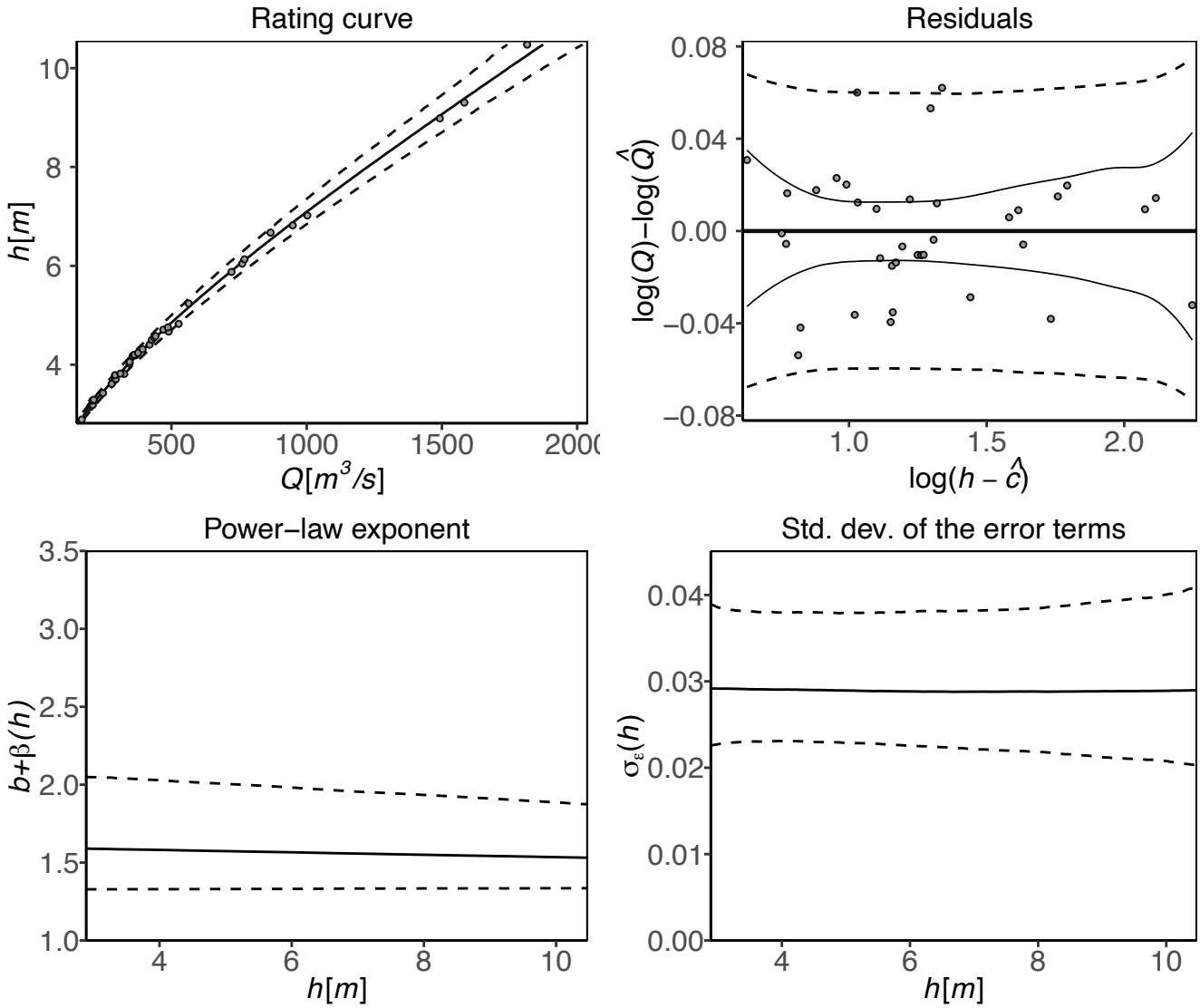
Station name:	Sacramento Verona
Location:	California, USA
Station number:	11425500
Number of observations:	37
Start date:	2010–02–01
End date:	2014–12–16
Max. discharge (m^3/s):	1815.1
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.00	0.32
GPLM0	0.26	0.28
PLM	0.90	0.20
PLM0	0.89	0.20



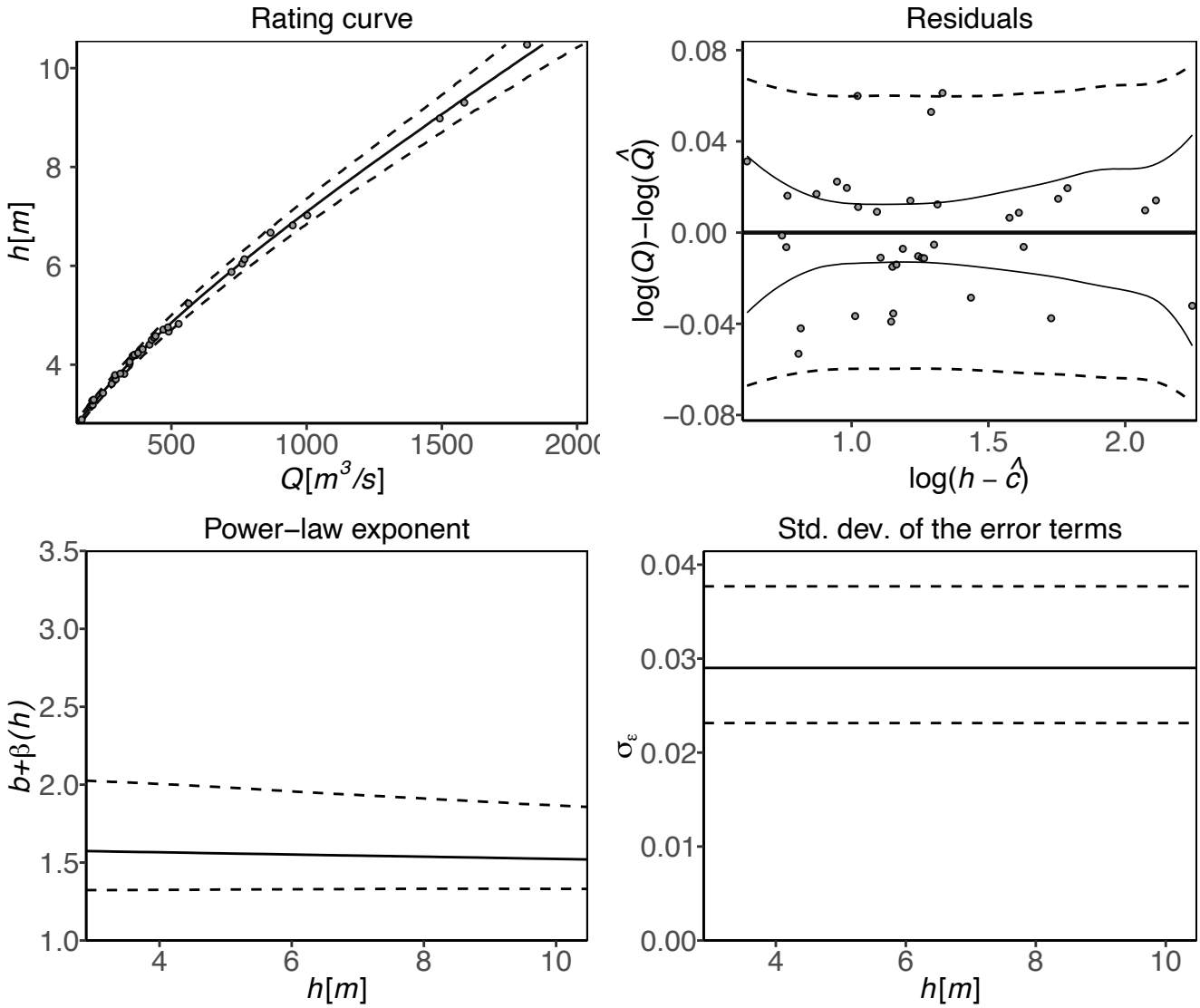


Sacramento Verona, Usa – GPLM



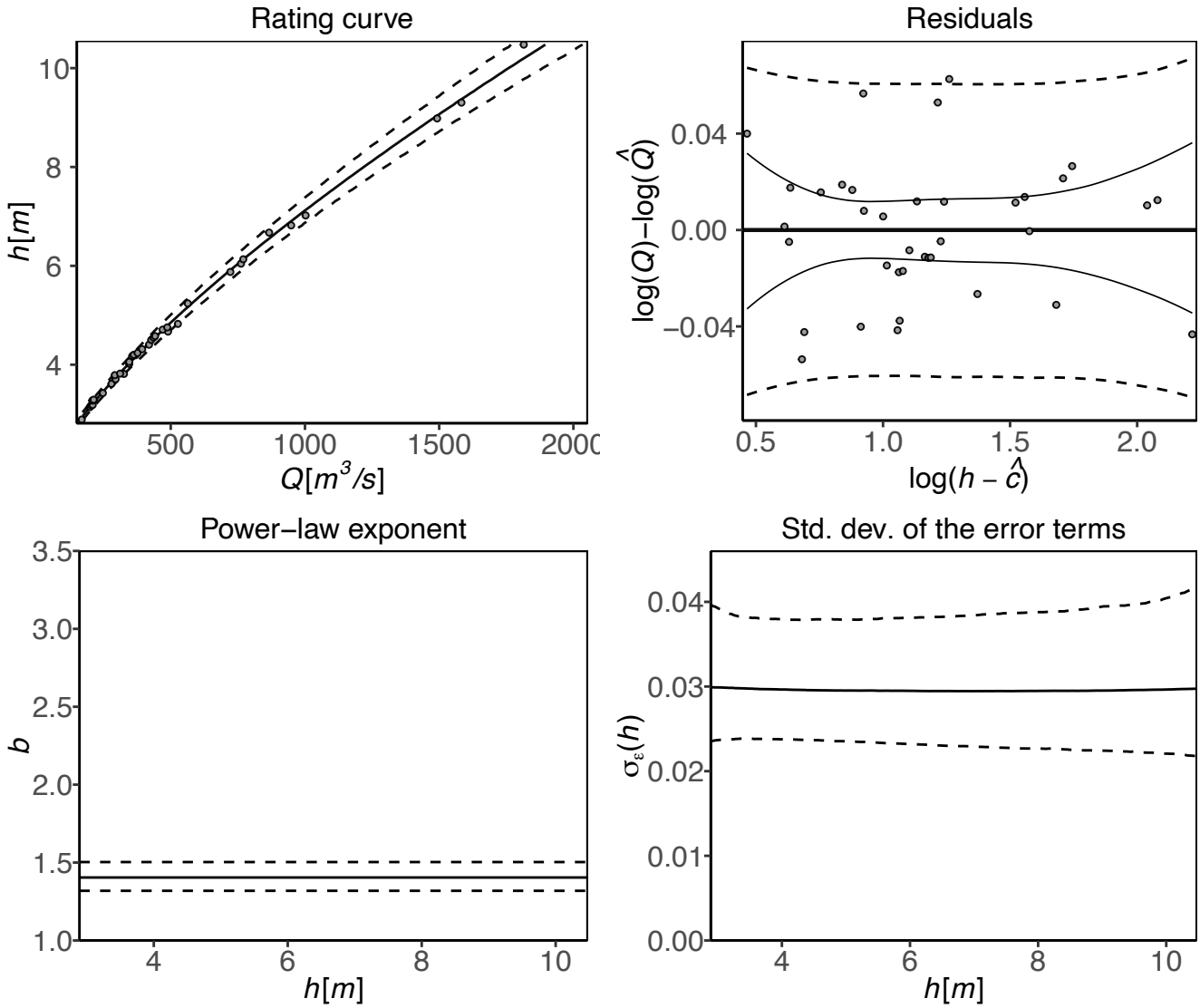
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	60.32	[23.83; 98.90]	1411	1.02
b	1.83	[1.83; 1.84]	8393	1.00
c	1.01	[0.28; 1.46]	1409	1.02
σ_β	0.26	[0.07; 0.71]	2354	1.00
ϕ_β	38.34	[5.38; 11261.65]	840	1.06
σ_η	0.08	[0.00; 0.40]	1505	1.00
η_1	−7.07	[−7.58; −6.49]	1836	1.00
η_2	−7.12	[−8.89; −5.19]	2264	1.00
η_3	−7.21	[−9.77; −4.59]	2047	1.00
η_4	−7.28	[−10.43; −4.01]	2220	1.00
η_5	−7.23	[−10.99; −3.45]	2102	1.00
η_6	−7.22	[−11.43; −2.95]	2158	1.00

Sacramento Verona, Usa – GPLM0



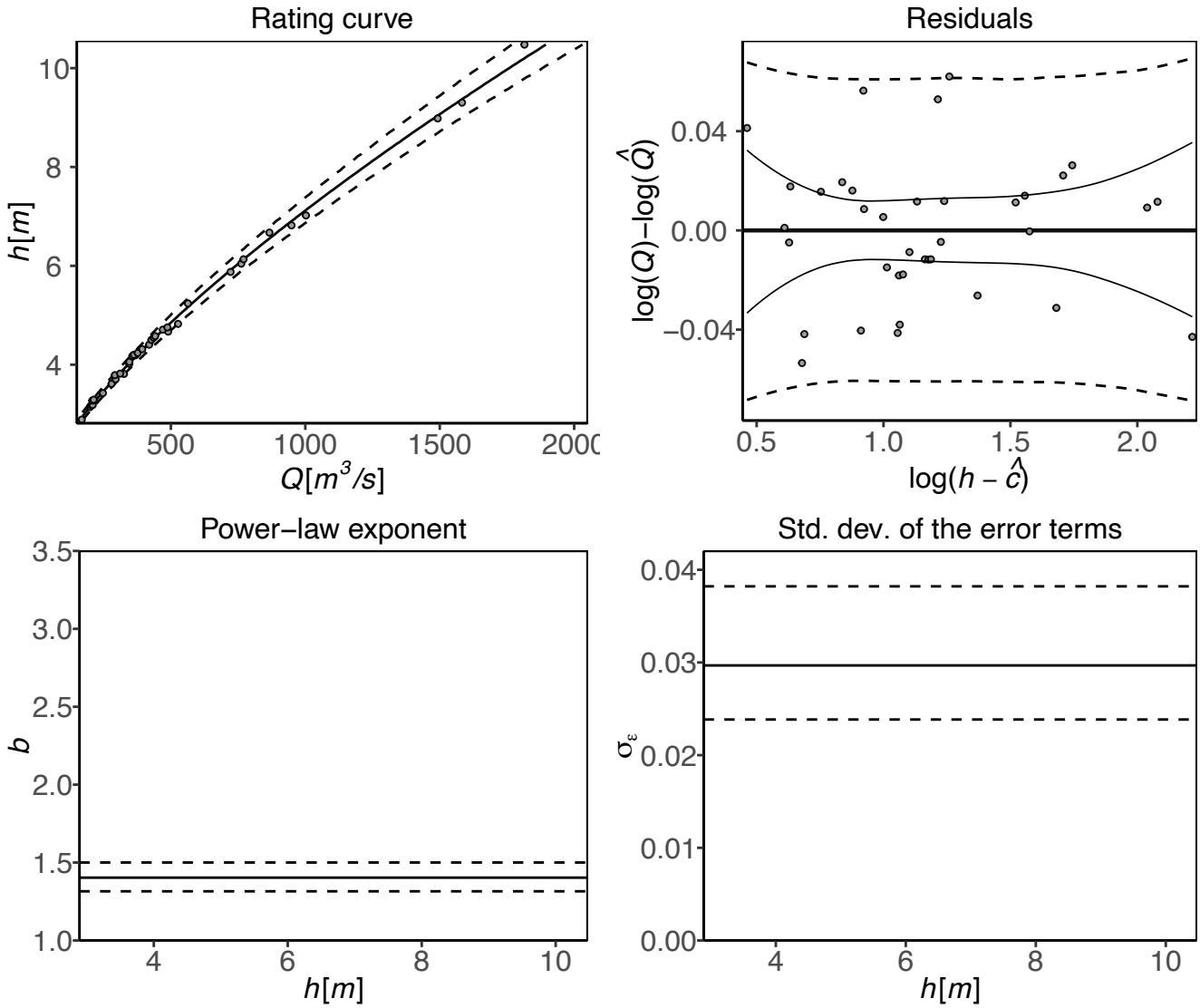
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	61.91	[25.11; 99.87]	2250	1.00
b	1.83	[1.83; 1.84]	10775	1.00
c	1.03	[0.30; 1.47]	2205	1.00
σ_ε	0.03	[0.02; 0.04]	4078	1.00
σ_β	0.52	[0.26; 0.86]	4119	1.00
ϕ_β	40.37	[4.88; 20971.36]	934	1.01

Sacramento Verona, Usa – PLM



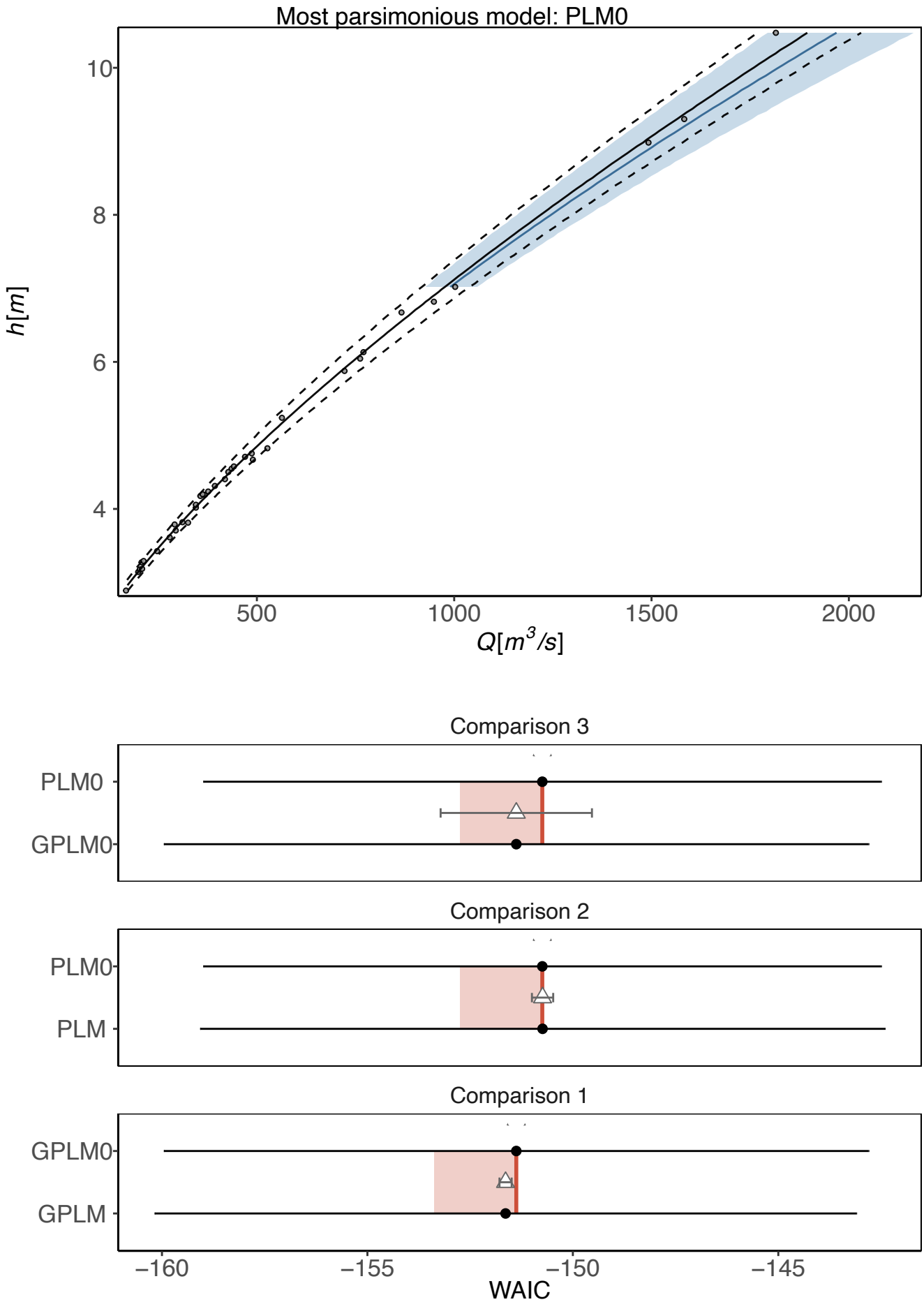
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	84.33	[67.18; 101.97]	2386	1.00
b	1.40	[1.32; 1.50]	2470	1.00
c	1.30	[1.06; 1.50]	2356	1.00
σ_η	0.08	[0.00; 0.40]	1793	1.00
η_1	−7.02	[−7.50; −6.45]	2620	1.00
η_2	−7.11	[−8.88; −5.26]	3095	1.00
η_3	−7.20	[−9.76; −4.57]	3083	1.00
η_4	−7.22	[−10.43; −4.00]	3150	1.00
η_5	−7.19	[−10.87; −3.50]	2990	1.00
η_6	−7.12	[−11.28; −3.06]	2754	1.00

Sacramento Verona, Usa – PLM0



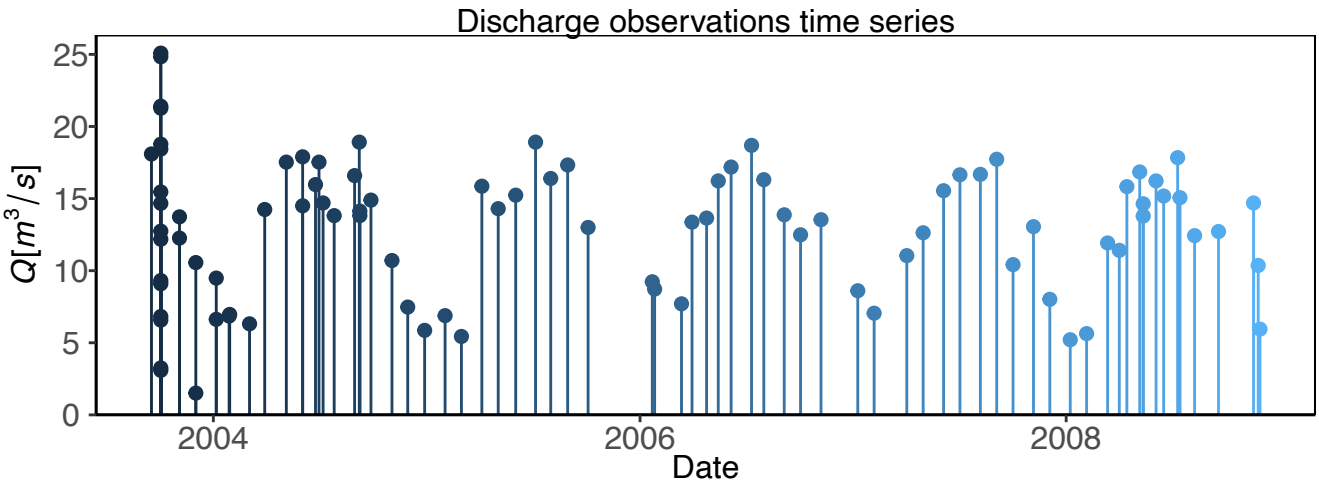
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	84.63	[67.51; 102.74]	9020	1.00
b	1.40	[1.32; 1.50]	9274	1.00
c	1.30	[1.07; 1.51]	8914	1.00
σ_ε	0.03	[0.02; 0.04]	8715	1.00

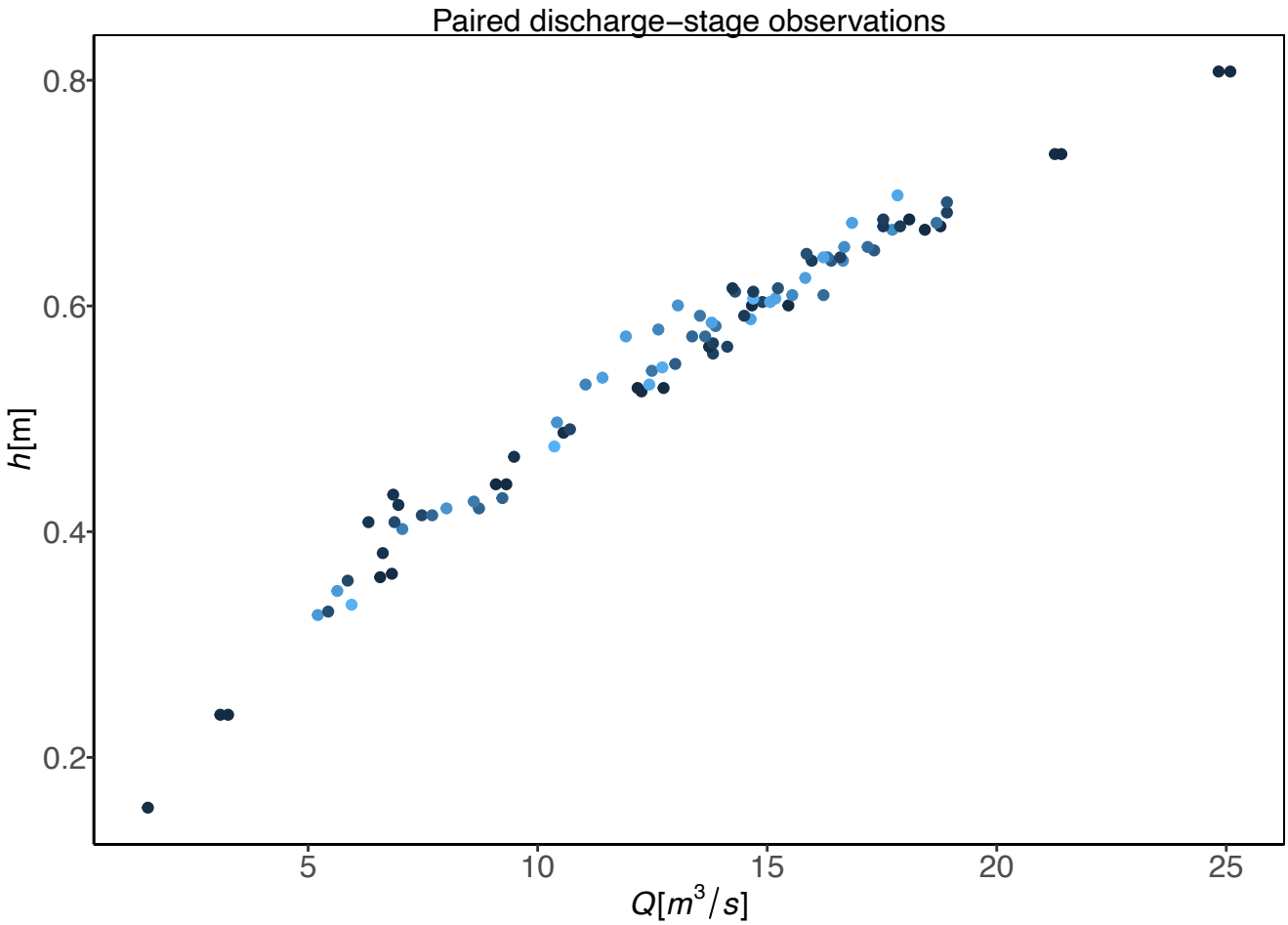
Power–law tournament results for Sacramento Verona, Usa



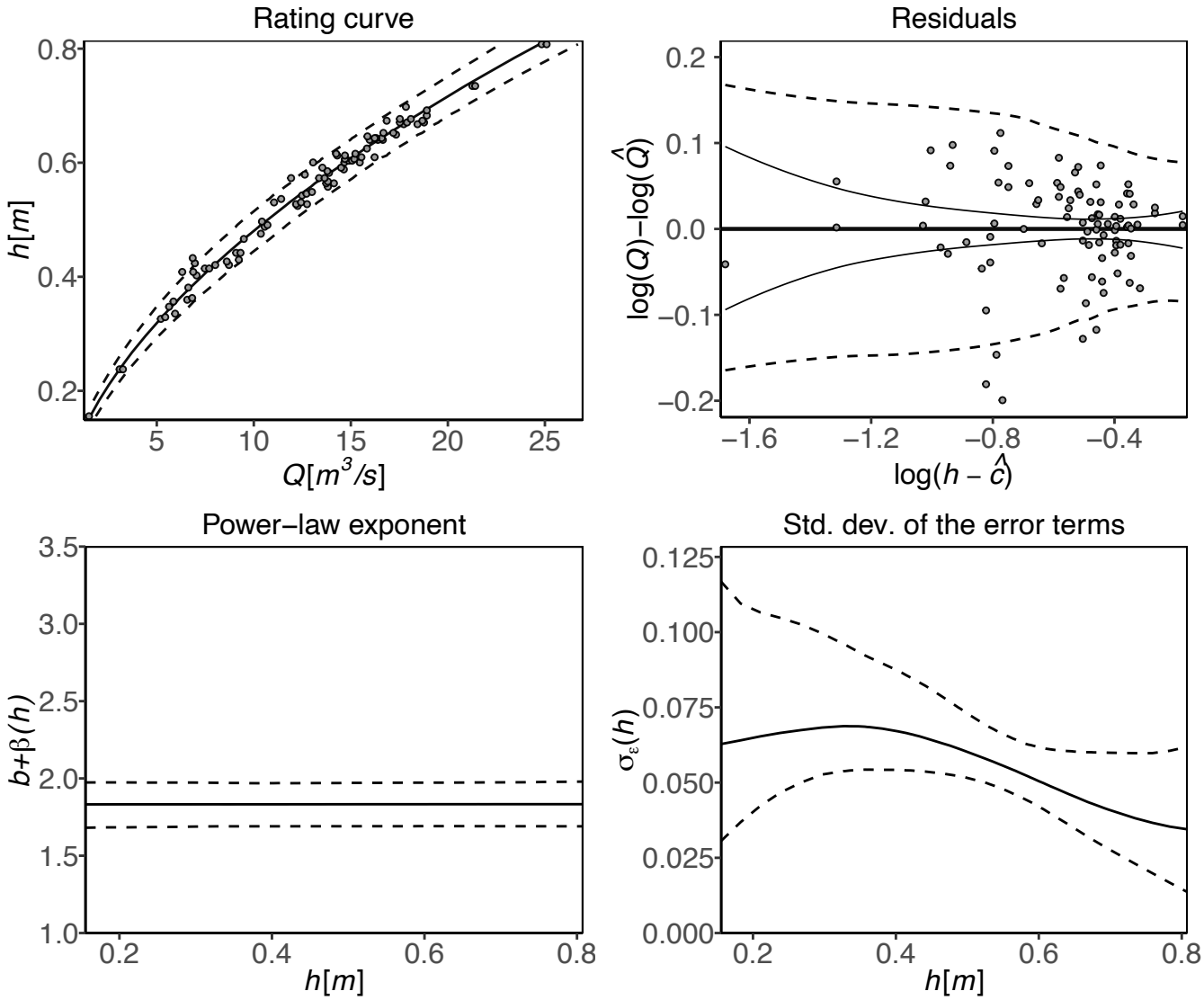
Station name:	Coachella
Location:	California, USA
Station number:	09527590
Number of observations:	91
Start date:	2003–09–17
End date:	2008–11–28
Max. discharge (m^3/s):	25.1
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	0.75
GPLM0	11.99	0.00
PLM	2.21	0.25
PLM0	13.22	0.00



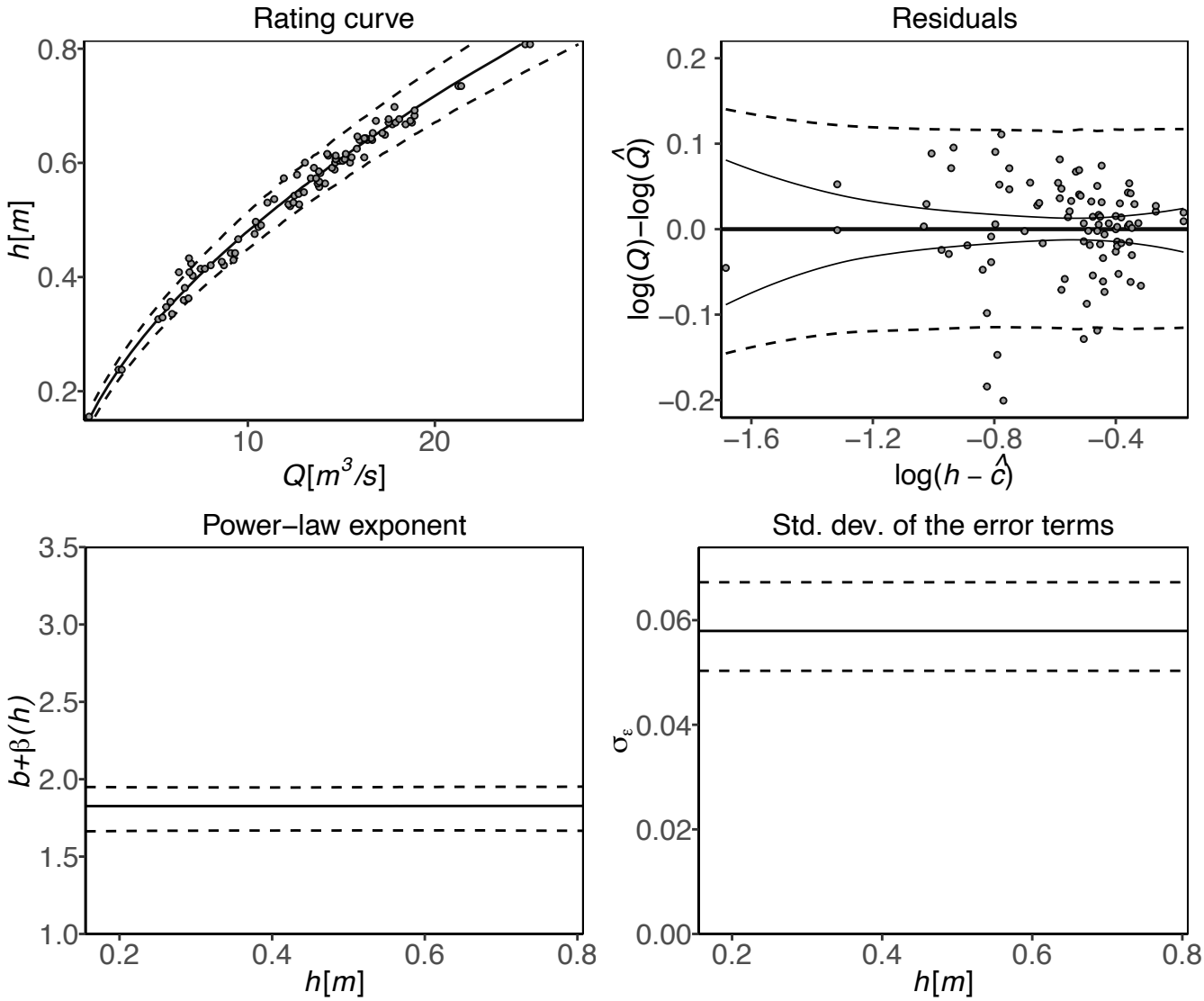


Coachella, Usa – GPLM



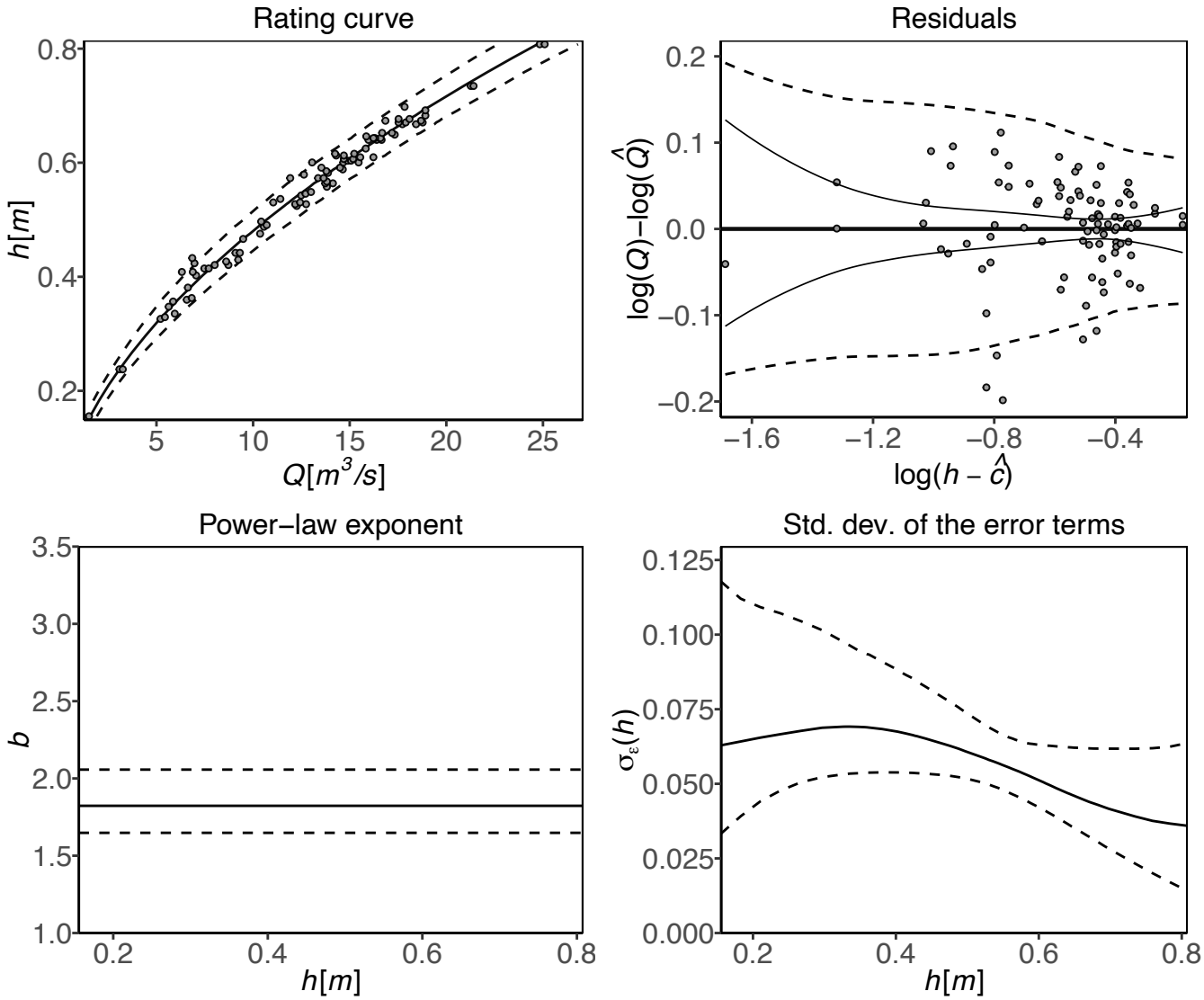
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.08	[32.06; 35.94]	1361	1.01
b	1.84	[1.83; 1.84]	6115	1.00
c	–0.03	[–0.07; 0.01]	1030	1.01
σ_β	0.07	[0.00; 0.45]	1525	1.00
ϕ_β	17.75	[0.77; 13305.54]	1258	1.01
σ_η	0.48	[0.05; 1.04]	827	1.05
η_1	–5.54	[–6.97; –4.30]	1325	1.02
η_2	–5.28	[–6.94; –3.80]	1284	1.02
η_3	–4.96	[–7.28; –3.48]	1356	1.02
η_4	–6.26	[–8.69; –4.55]	1424	1.01
η_5	–7.72	[–10.22; –5.38]	1375	1.01
η_6	–8.15	[–11.18; –5.16]	1692	1.00

Coachella, Usa – GPLM0



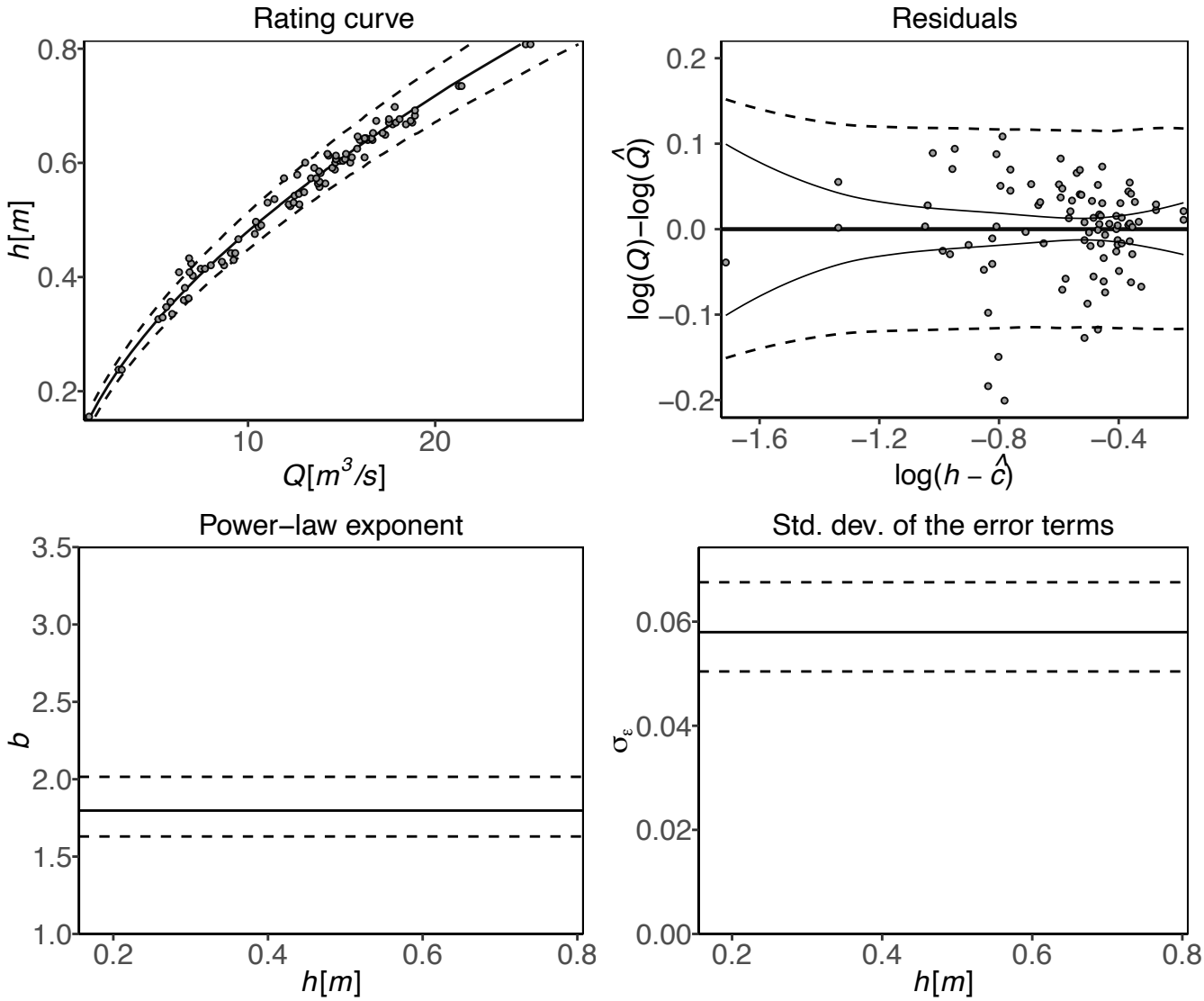
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.03	[32.23; 35.86]	2713	1.00
b	1.83	[1.83; 1.84]	11089	1.00
c	–0.03	[–0.06; 0.01]	1979	1.00
σ_ε	0.06	[0.05; 0.07]	4881	1.00
σ_β	0.28	[0.06; 0.66]	4235	1.00
ϕ_β	17.97	[0.74; 14074.07]	3139	1.00

Coachella, Usa – PLM



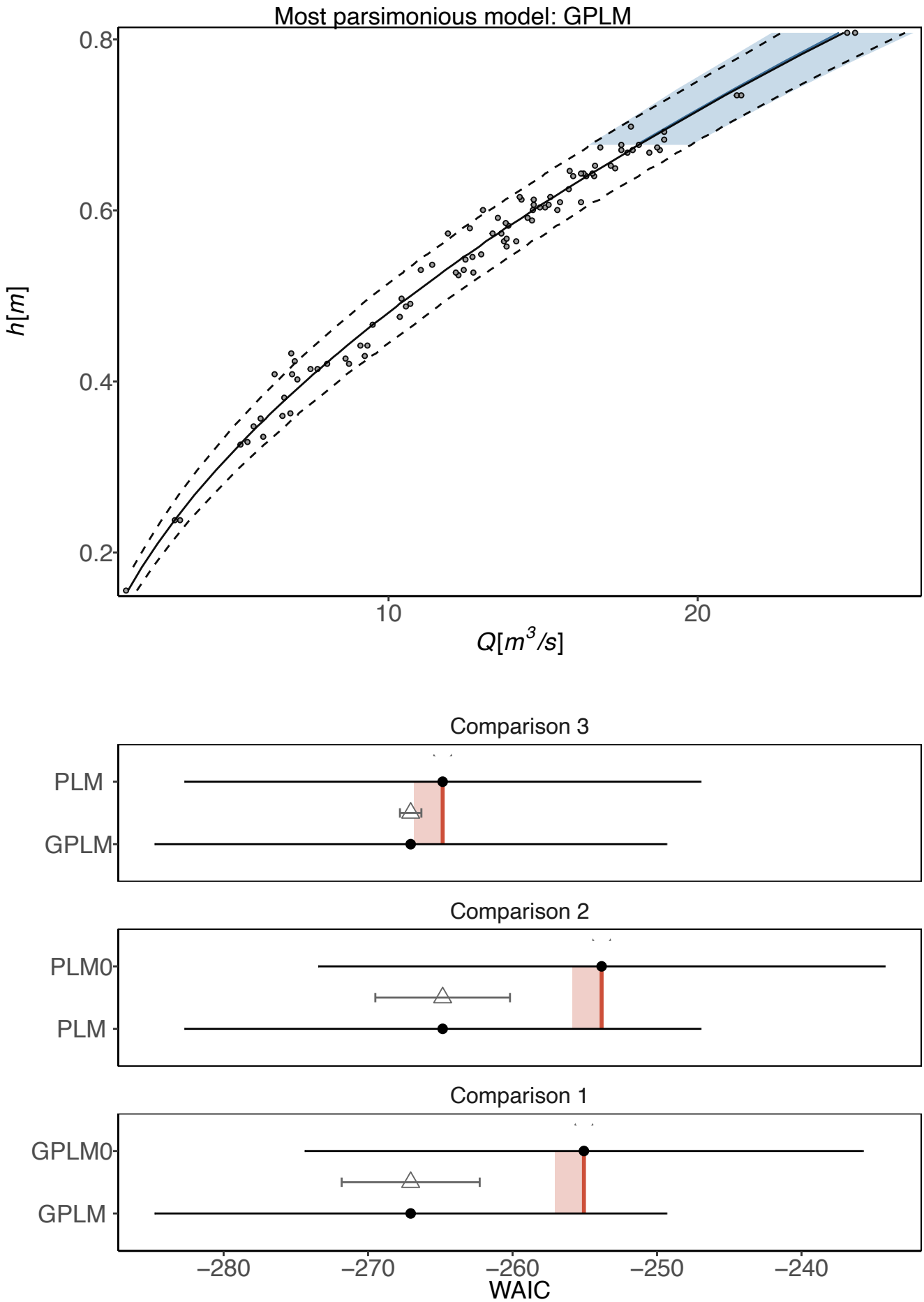
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.04	[31.09; 35.73]	2038	1.00
b	1.82	[1.65; 2.06]	1872	1.00
c	–0.03	[–0.09; 0.01]	1806	1.00
σ_η	0.47	[0.03; 0.99]	823	1.02
η_1	–5.53	[–6.80; –4.28]	1764	1.00
η_2	–5.21	[–6.78; –3.77]	1608	1.00
η_3	–4.93	[–7.02; –3.40]	1694	1.01
η_4	–6.21	[–8.44; –4.27]	1406	1.00
η_5	–7.60	[–9.95; –4.82]	1482	1.00
η_6	–8.00	[–10.96; –4.47]	2158	1.00

Coachella, Usa – PLM0



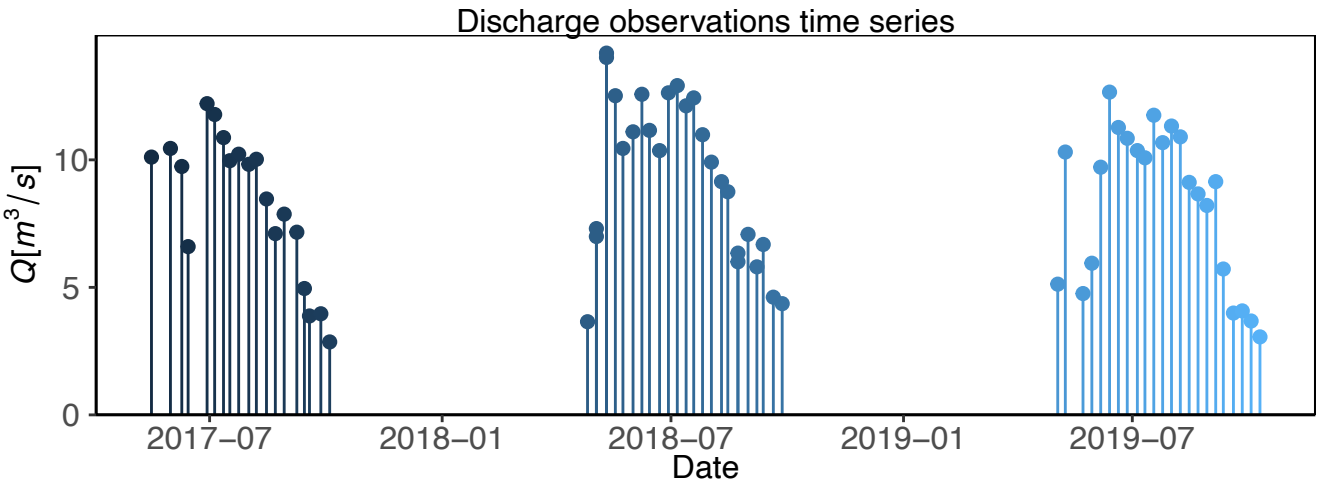
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.10	[31.95; 35.63]	10507	1.00
b	1.80	[1.63; 2.02]	9159	1.00
c	–0.02	[–0.08; 0.01]	9037	1.00
σ_ε	0.06	[0.05; 0.07]	9584	1.00

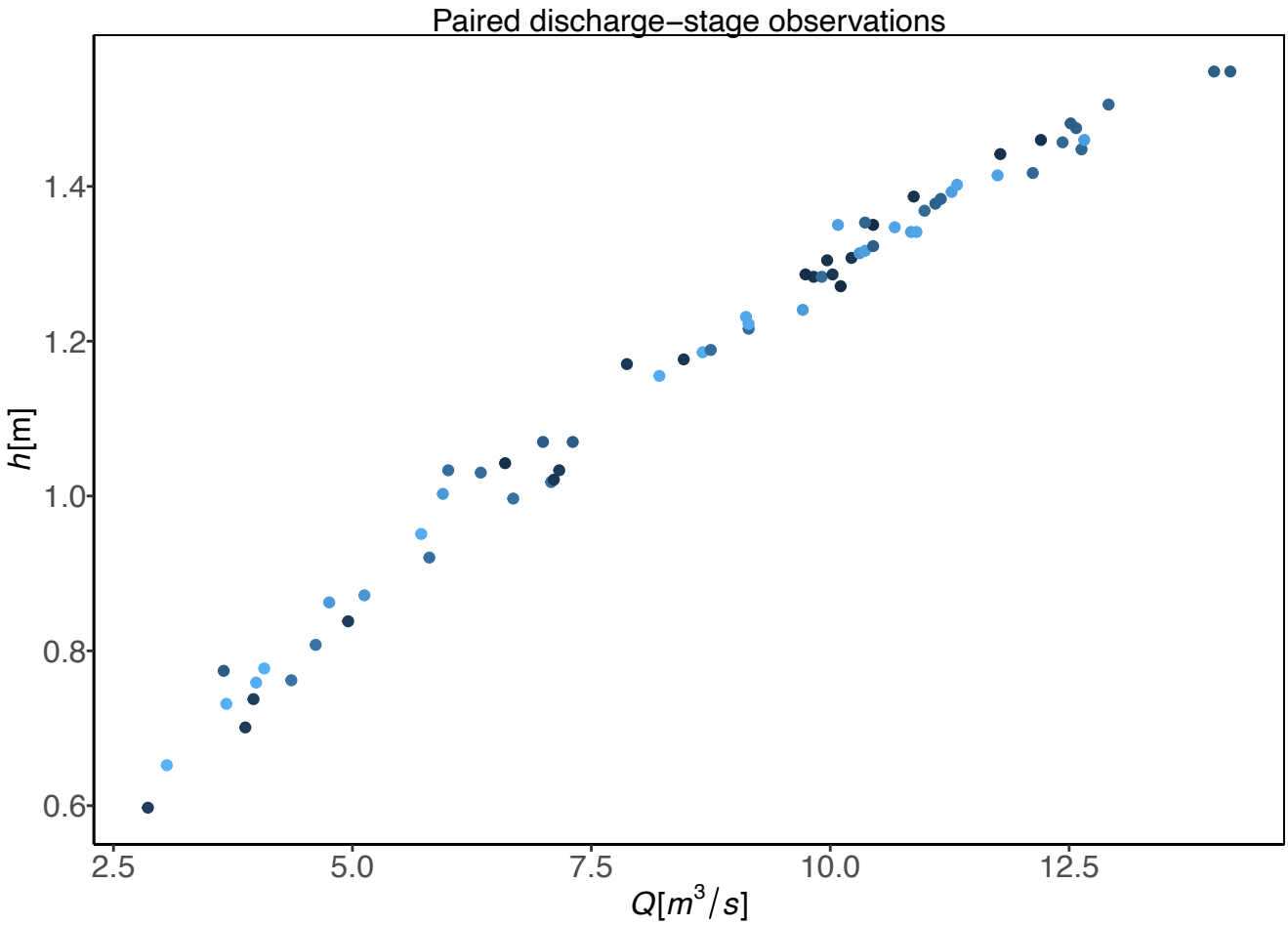
Power−law tournament results for Coachella, Usa



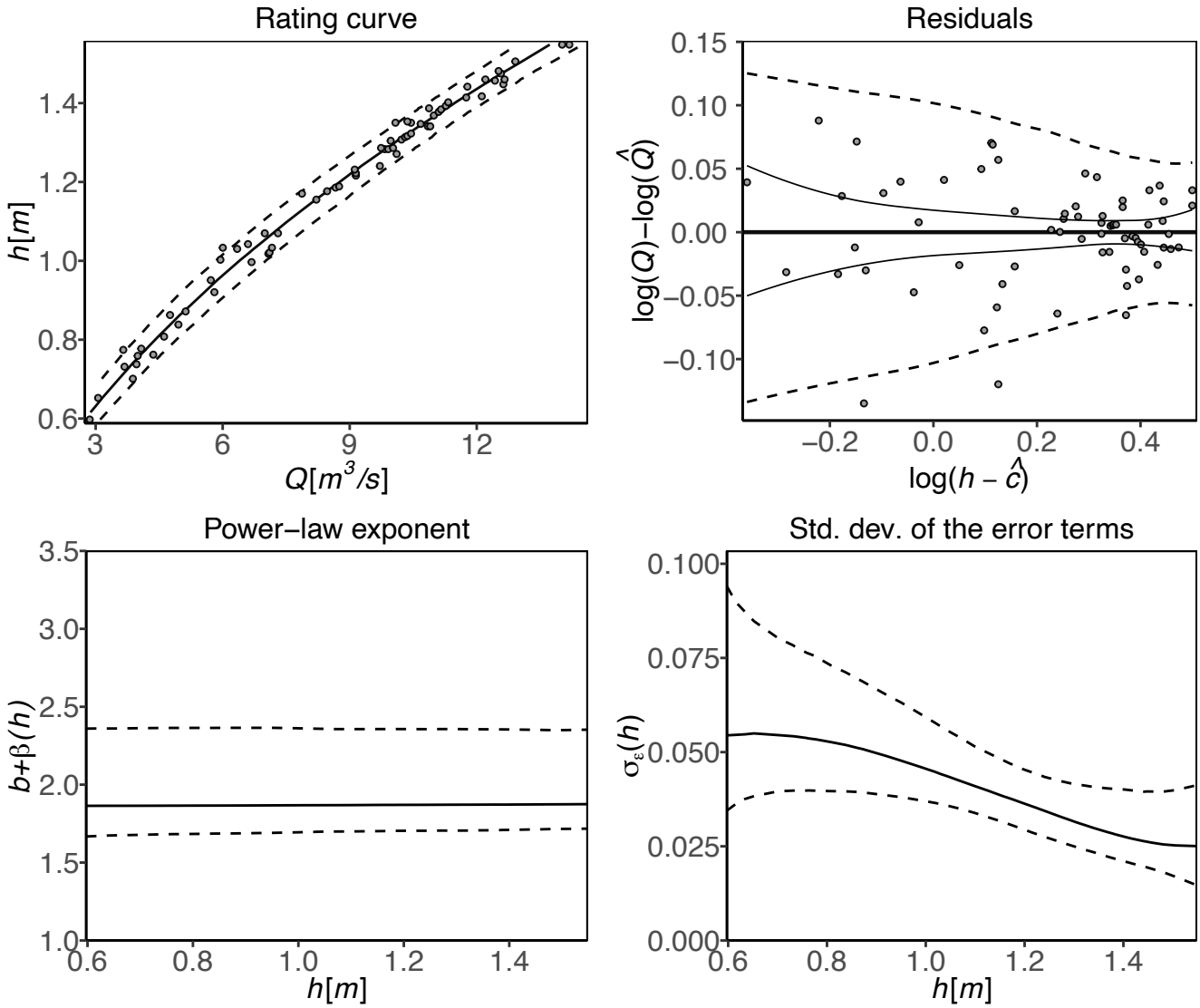
Station name:	Winters
Location:	California, USA
Station number:	384244122050401
Number of observations:	68
Start date:	2017–05–16
End date:	2019–10–10
Max. discharge (m^3/s):	14.2
Tournament winner:	PLM

	dWAIC	Akaike weights
GPLM	0.82	0.4
GPLM0	17.23	0.0
PLM	0.00	0.6
PLM0	16.72	0.0



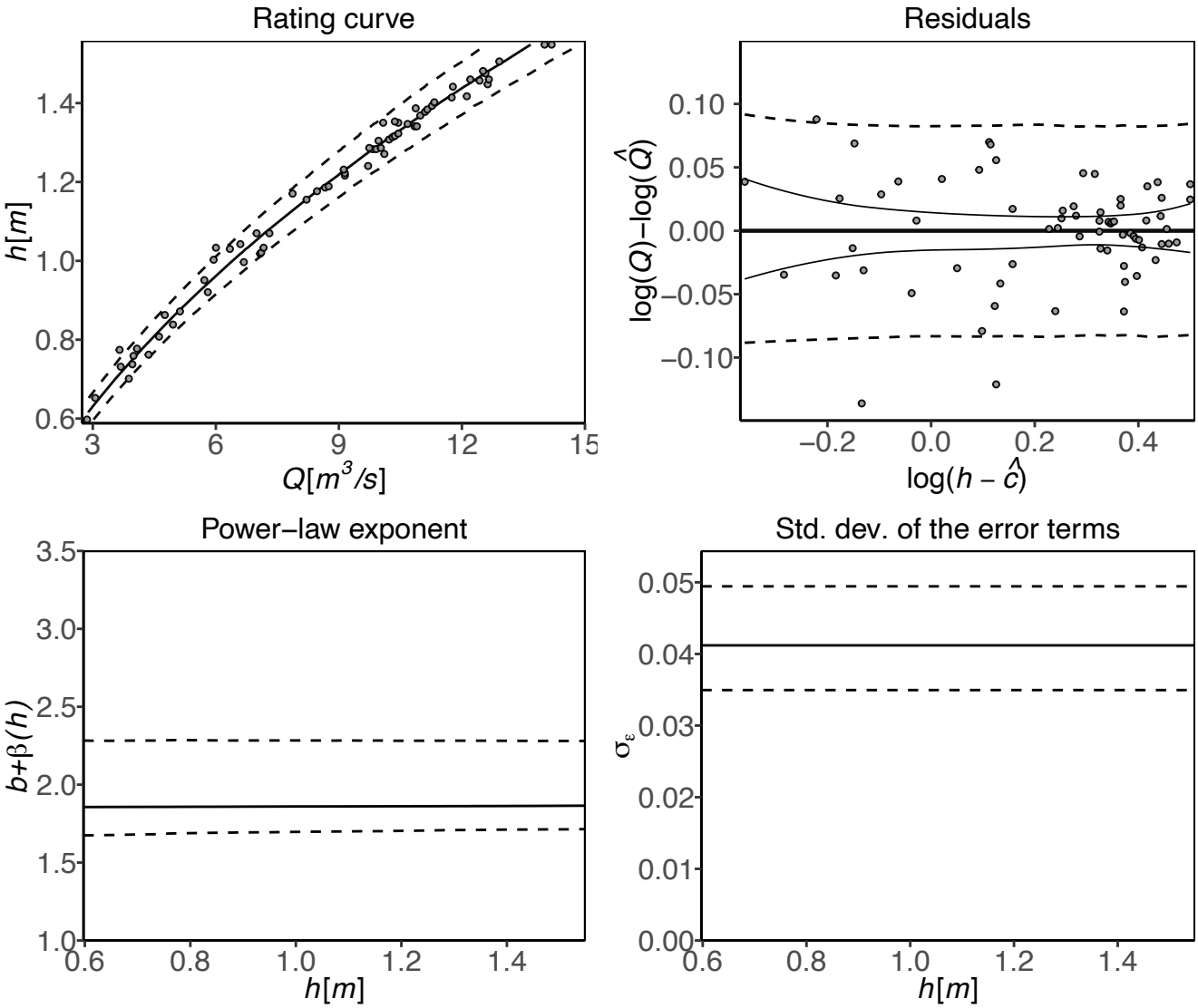


Winters, Usa – GPLM



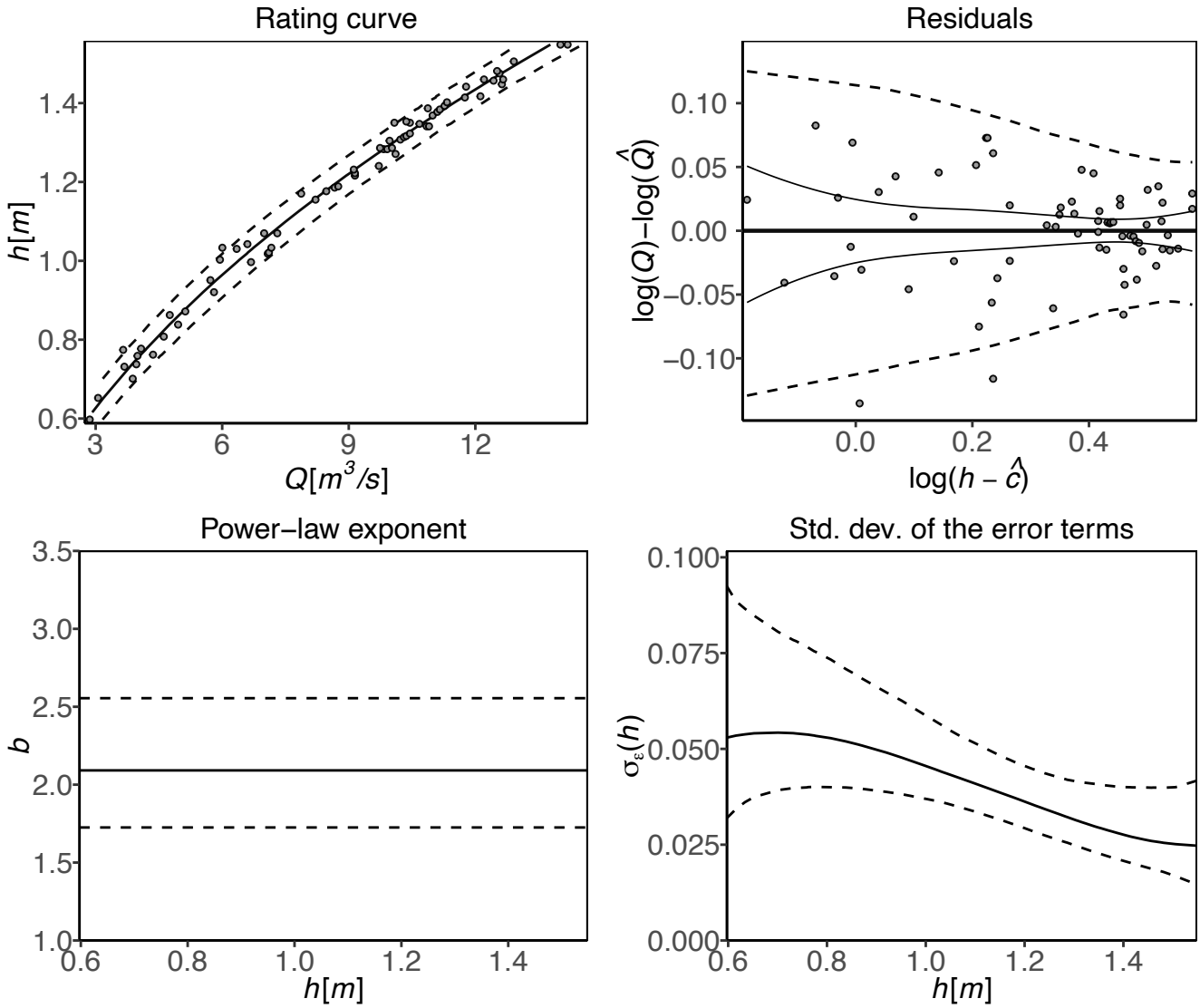
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.37	[2.90; 6.50]	887	1.04
b	1.84	[1.83; 1.84]	6026	1.00
c	–0.10	[–0.39; 0.01]	917	1.03
σ_β	0.12	[0.00; 0.61]	1691	1.01
ϕ_β	18.72	[0.72; 13702.96]	1312	1.01
σ_η	0.48	[0.12; 0.93]	975	1.05
η_1	–5.82	[–6.74; –4.73]	1551	1.01
η_2	–5.75	[–7.30; –4.38]	1505	1.00
η_3	–6.08	[–8.23; –4.70]	1601	1.00
η_4	–7.61	[–10.02; –5.99]	1511	1.01
η_5	–8.93	[–11.54; –7.03]	1505	1.01
η_6	–9.11	[–12.13; –6.73]	1664	1.00

Winters, Usa – GPLM0



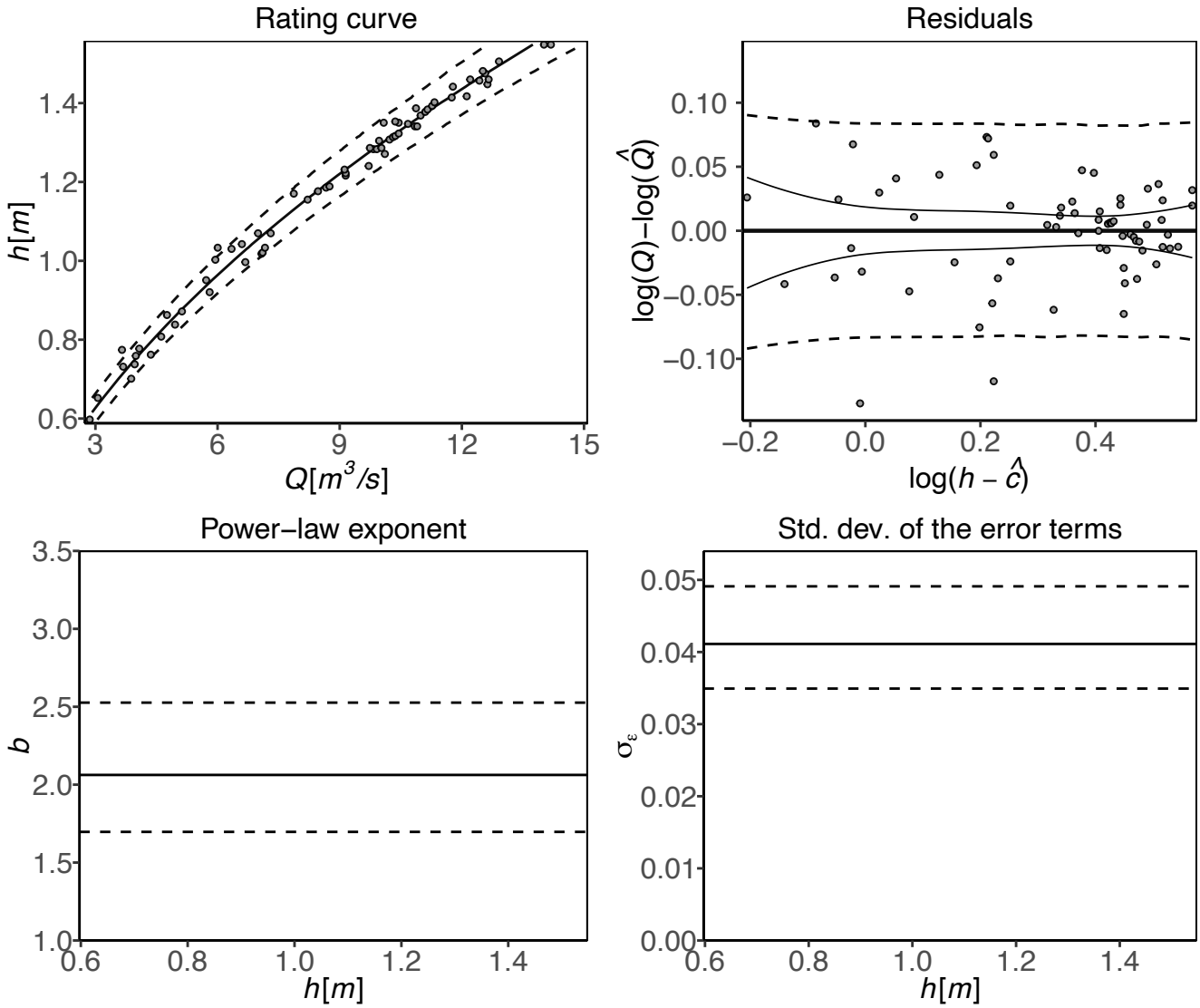
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.37	[3.23; 6.44]	1138	1.01
b	1.84	[1.83; 1.84]	9670	1.00
c	–0.10	[–0.35; 0.00]	1211	1.01
σ_ε	0.04	[0.03; 0.05]	3805	1.00
σ_β	0.33	[0.06; 0.74]	2964	1.00
ϕ_β	18.69	[0.82; 14462.11]	2618	1.00

Winters, Usa – PLM



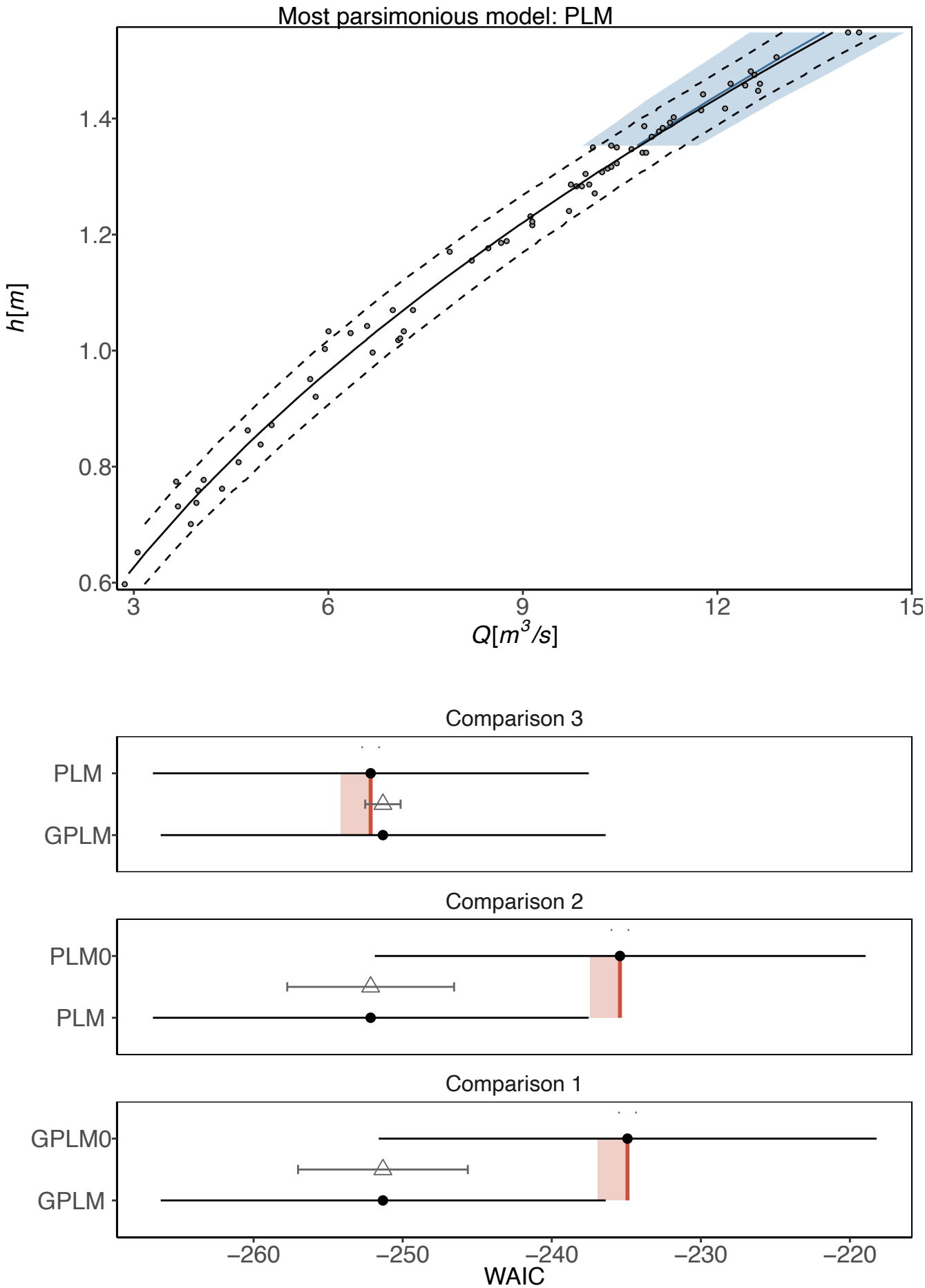
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.12	[2.17; 6.34]	2625	1.00
b	2.09	[1.73; 2.56]	2624	1.00
c	–0.23	[–0.52; –0.01]	2557	1.00
σ_η	0.48	[0.14; 0.92]	1137	1.03
η_1	–5.88	[–6.89; –4.76]	1983	1.01
η_2	–5.66	[–7.15; –4.34]	1986	1.00
η_3	–6.02	[–8.06; –4.57]	2233	1.00
η_4	–7.56	[–9.88; –5.88]	2106	1.00
η_5	–8.83	[–11.46; –6.92]	2219	1.00
η_6	–9.03	[–12.08; –6.64]	2574	1.00

Winters, Usa – PLM0



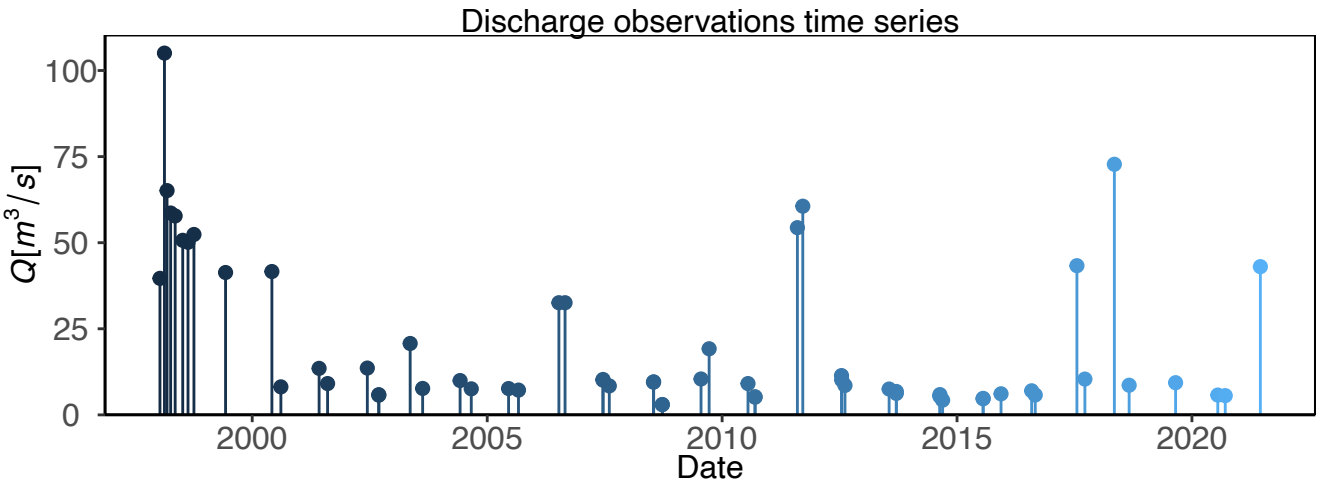
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.26	[2.29; 6.45]	9268	1.00
b	2.06	[1.70; 2.53]	9249	1.00
c	–0.22	[–0.50; 0.00]	9095	1.00
σ_ε	0.04	[0.03; 0.05]	10037	1.00

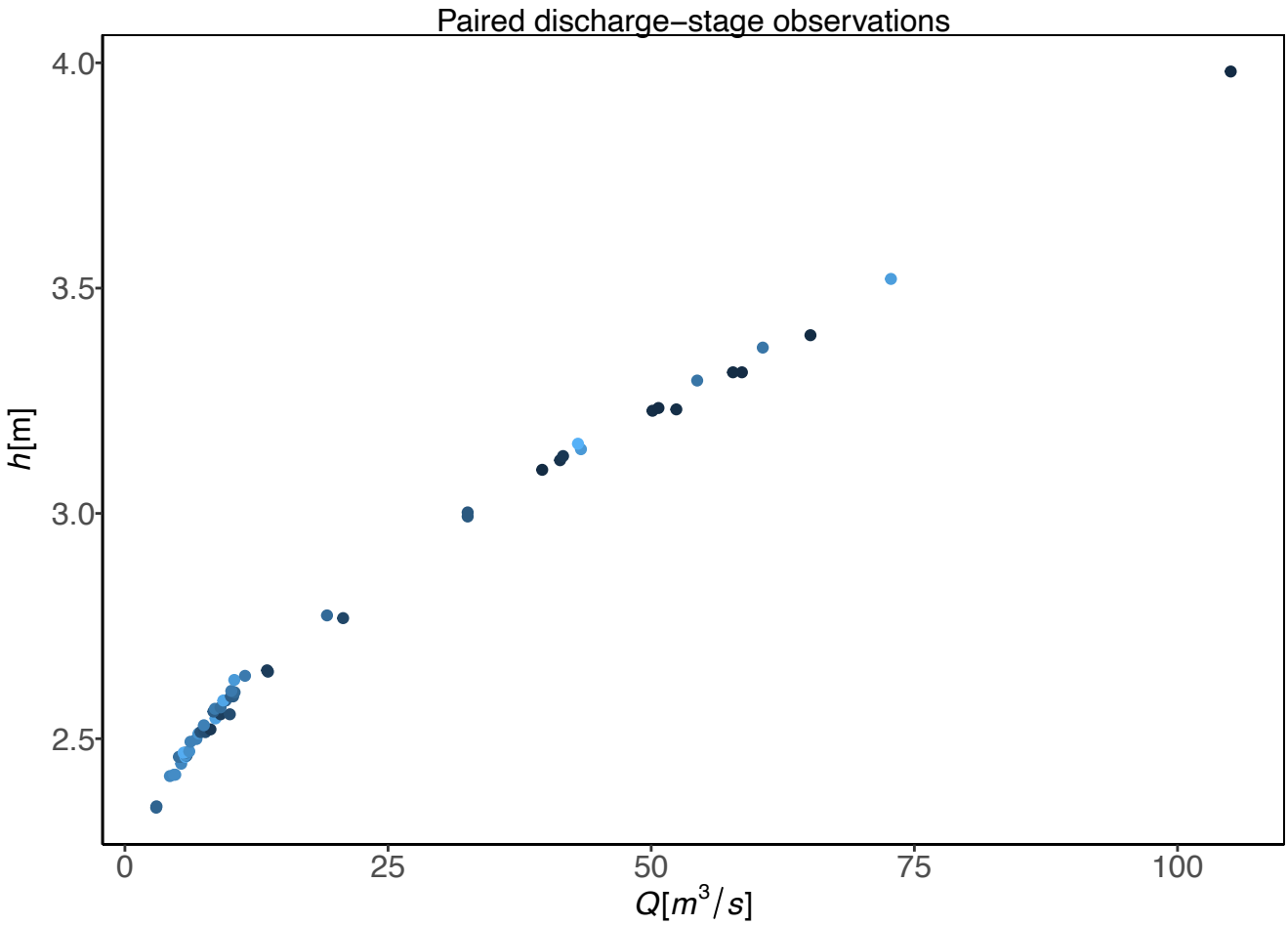
Power−law tournament results for Winters, Usa



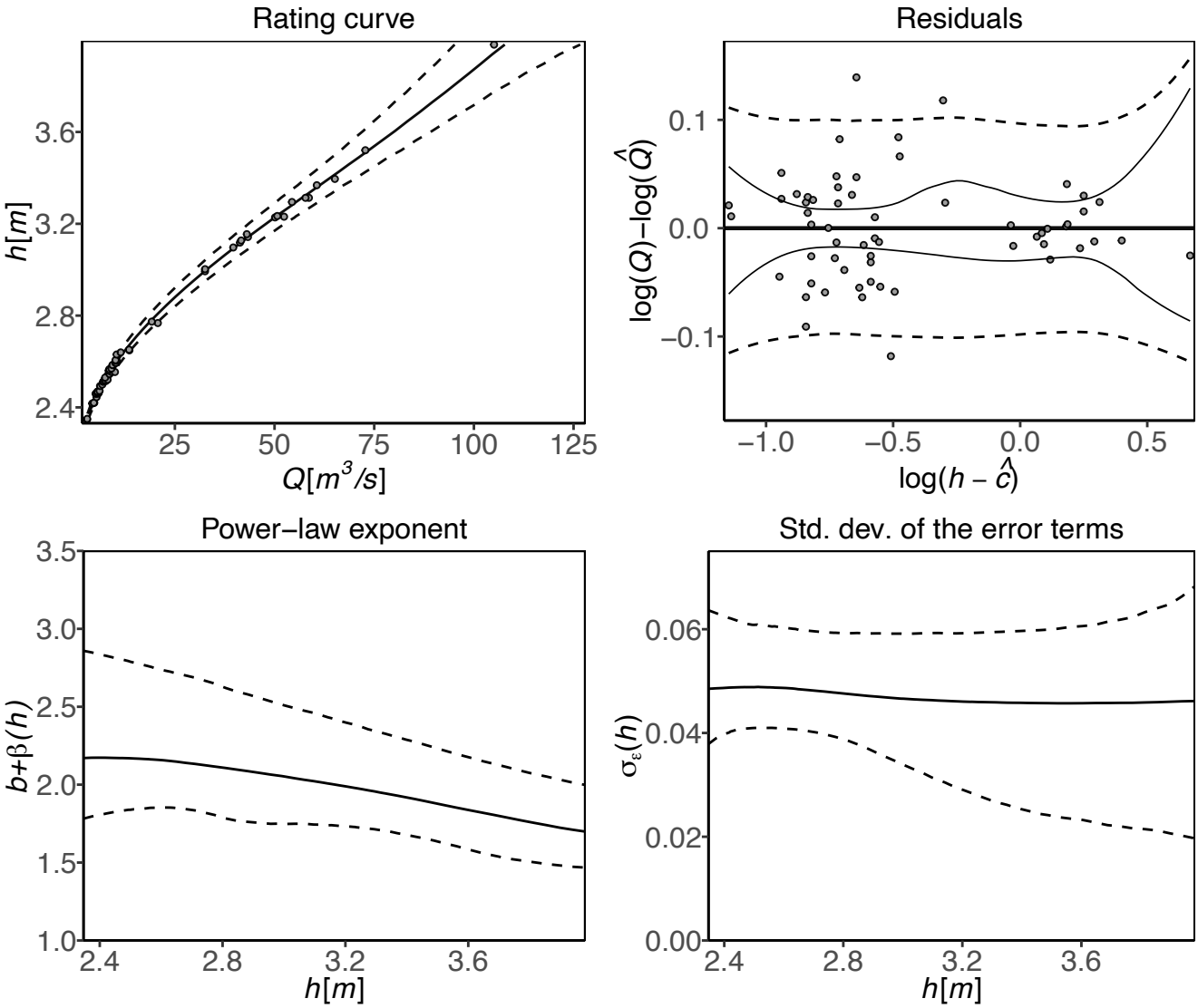
Station name:	Stanislaus
Location:	California, USA
Station number:	11302000
Number of observations:	60
Start date:	1998–01–14
End date:	2021–06–16
Max. discharge (m^3/s):	105.1
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.58
GPLM0	0.69	0.42
PLM	22.14	0.00
PLM0	25.52	0.00



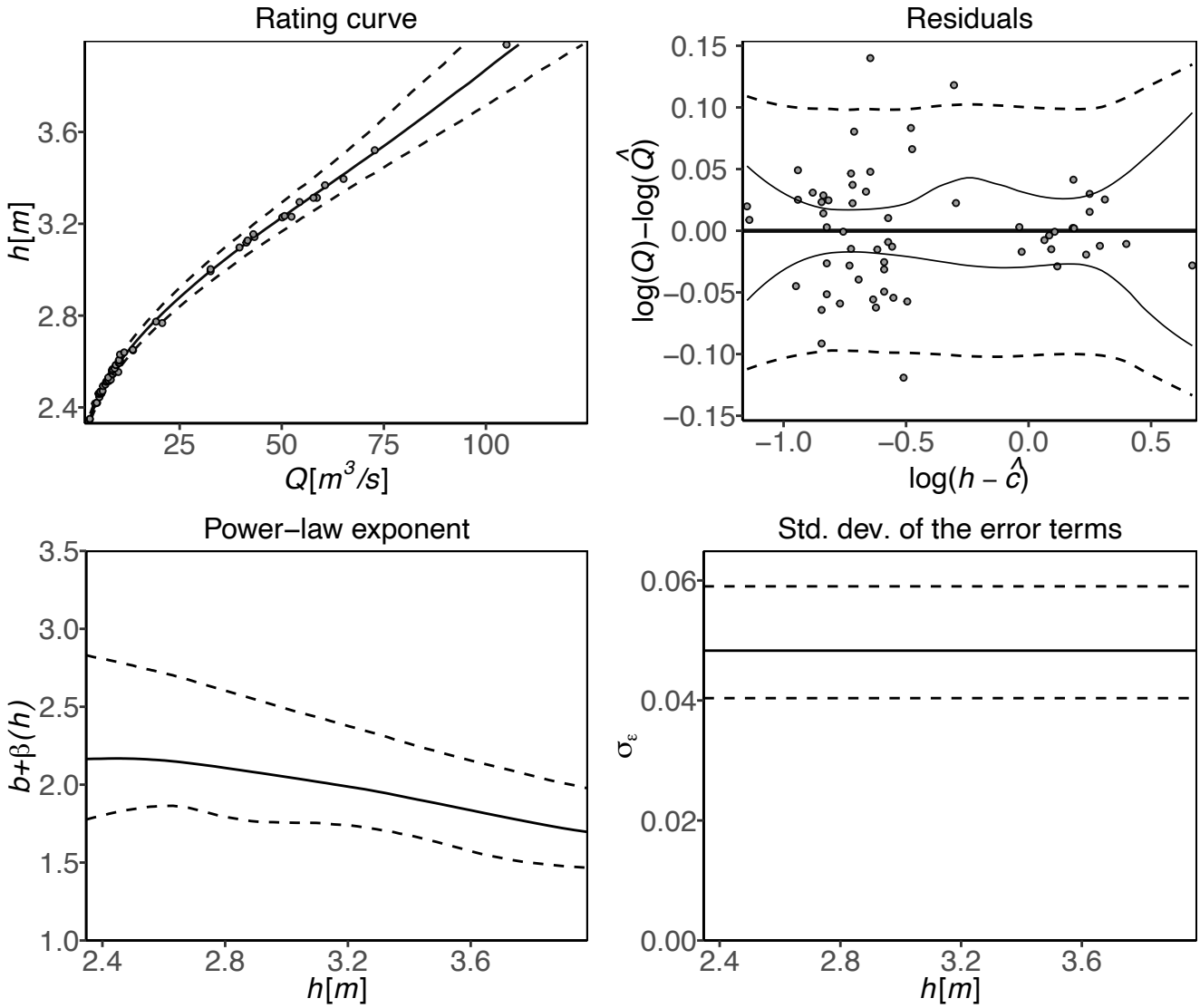


Stanislaus, Usa – GPLM



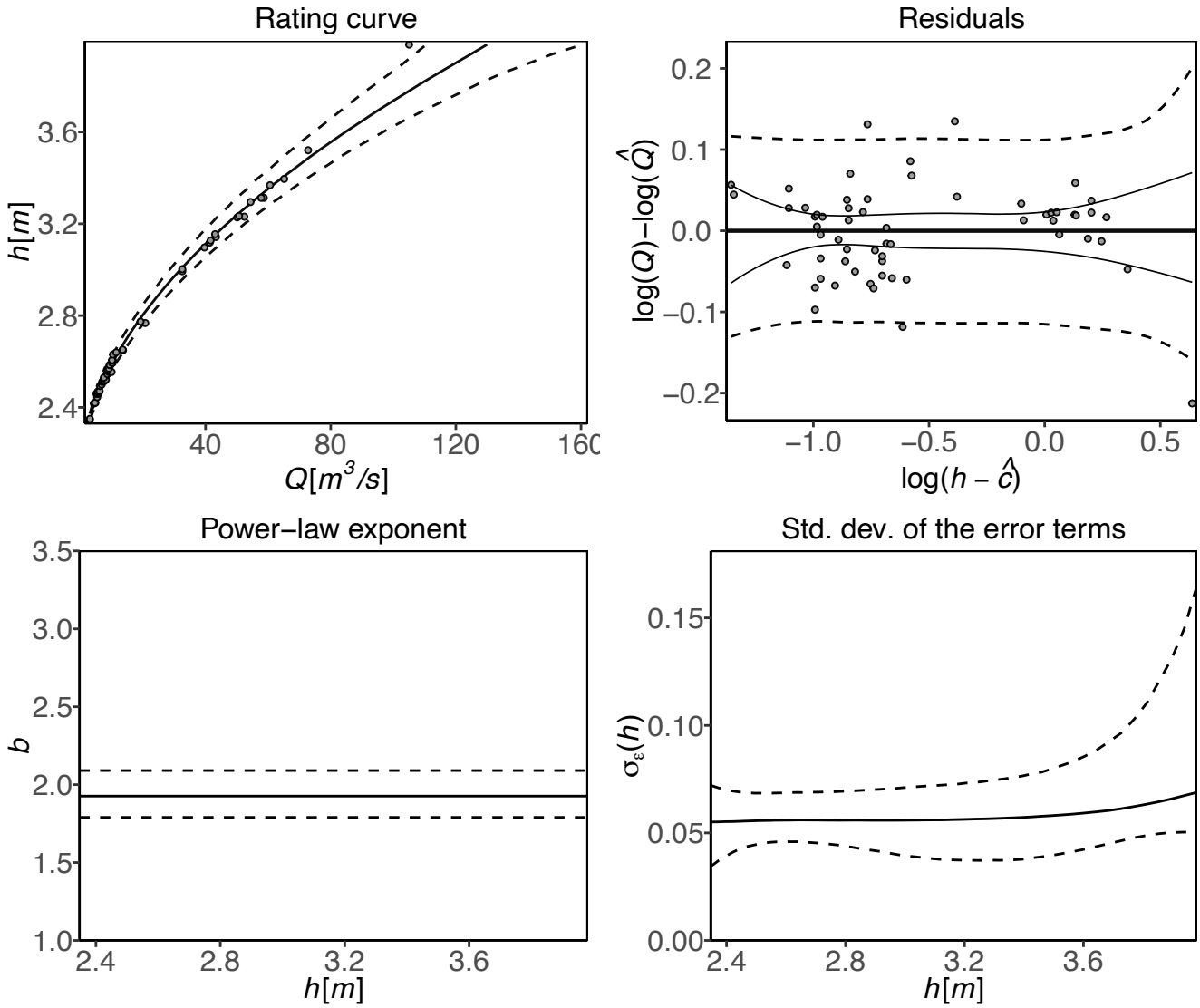
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	34.97	[24.07; 42.10]	1727	1.01
b	1.83	[1.83; 1.84]	8180	1.00
c	2.03	[1.86; 2.12]	1549	1.01
σ_β	0.31	[0.10; 0.89]	1920	1.01
ϕ_β	1.35	[0.32; 5.84]	1200	1.02
σ_η	0.12	[0.00; 0.67]	1718	1.01
η_1	–6.05	[–6.55; –5.51]	1572	1.01
η_2	–5.87	[–7.81; –4.22]	1893	1.00
η_3	–6.37	[–8.87; –3.73]	2447	1.00
η_4	–6.84	[–9.98; –3.36]	2301	1.00
η_5	–6.83	[–10.57; –2.87]	2005	1.00
η_6	–6.76	[–11.11; –2.36]	2071	1.00

Stanislaus, Usa – GPLM0



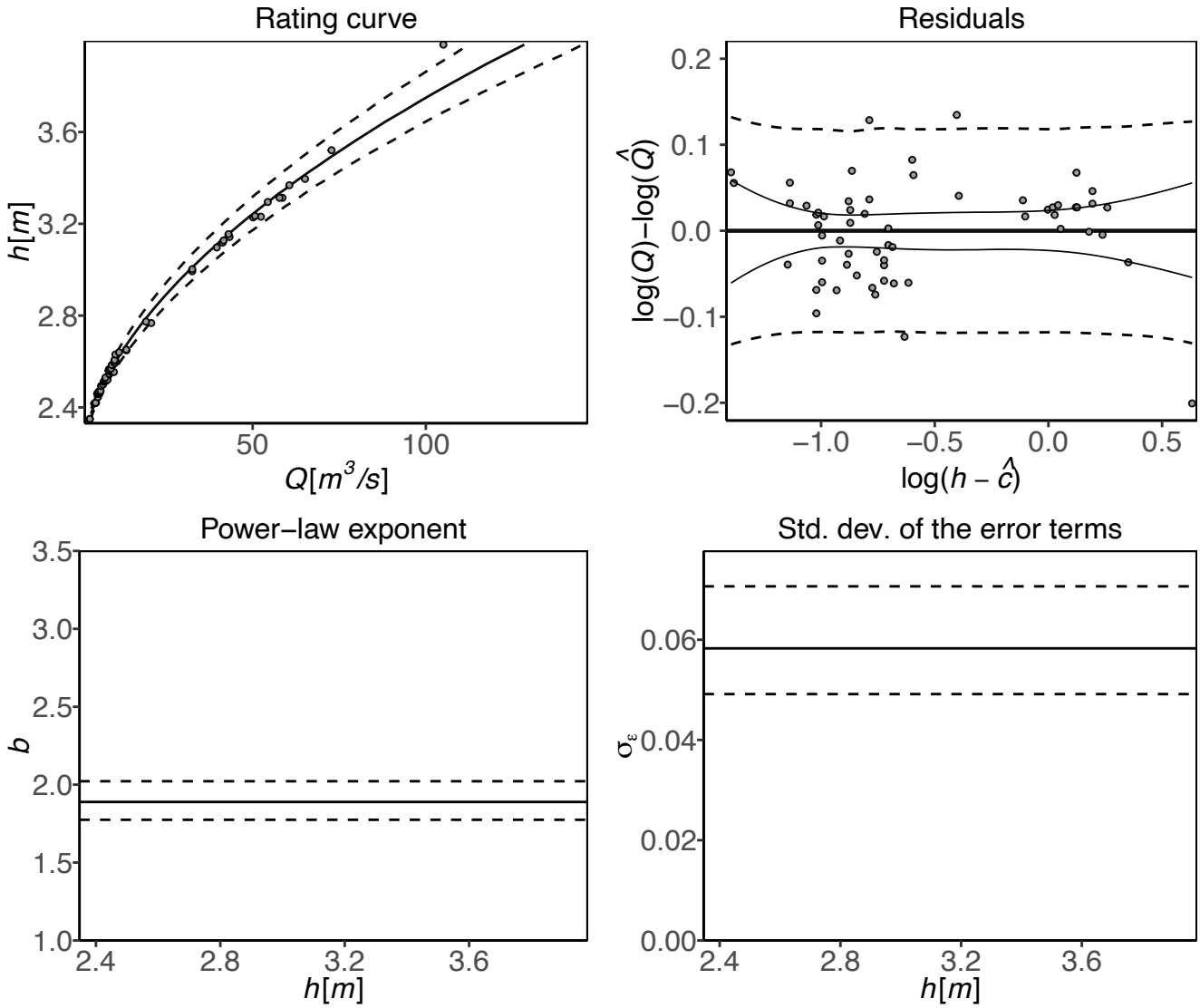
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	35.06	[24.56; 42.09]	4466	1.00
b	1.83	[1.83; 1.84]	13191	1.00
c	2.03	[1.87; 2.13]	4316	1.00
σ_ε	0.05	[0.04; 0.06]	4874	1.00
σ_β	0.56	[0.33; 0.94]	5955	1.00
ϕ_β	1.32	[0.31; 4.44]	5022	1.00

Stanislaus, Usa – PLM



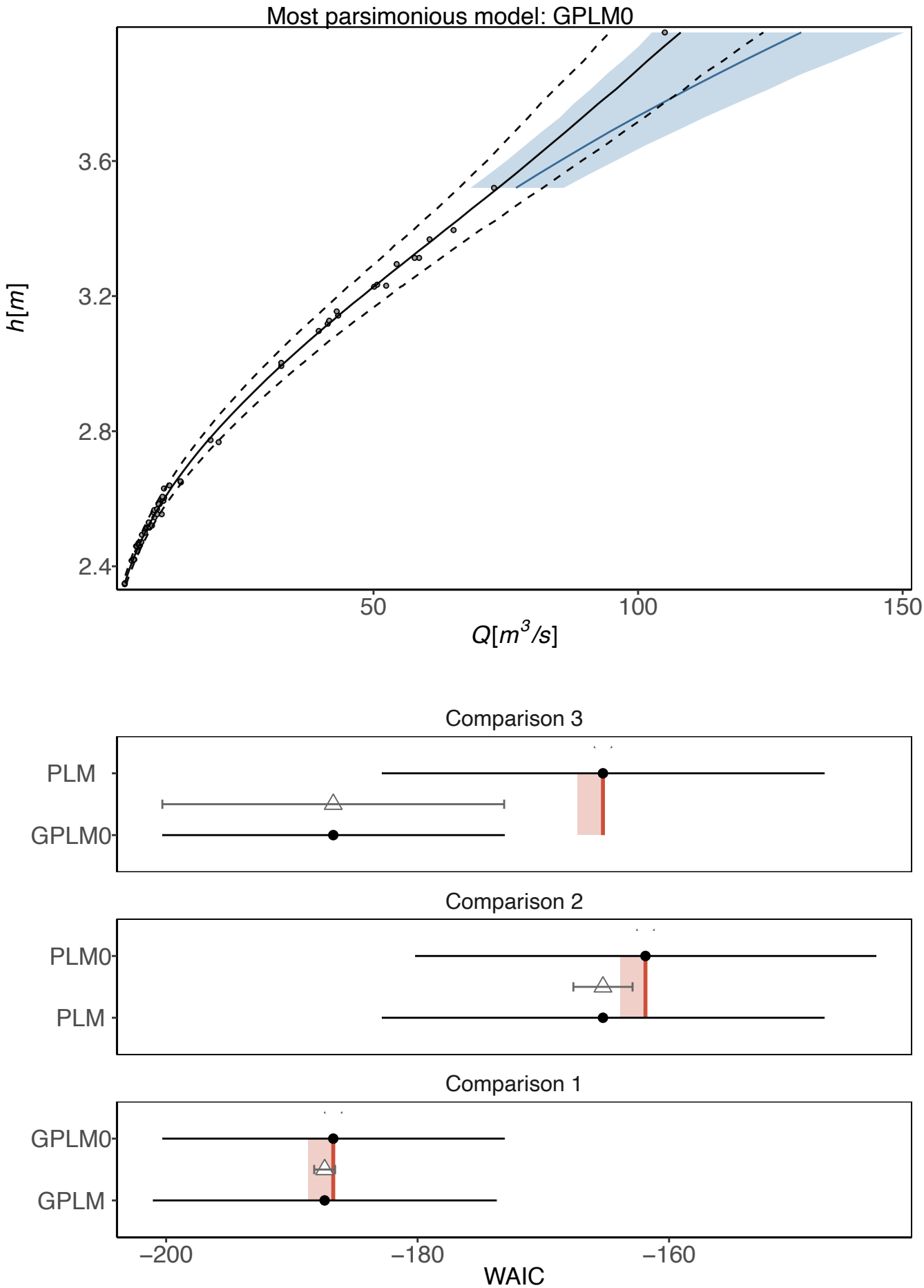
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	38.23	[34.60; 41.41]	2222	1.00
b	1.93	[1.79; 2.09]	1880	1.01
c	2.09	[2.04; 2.13]	1936	1.01
σ_η	0.21	[0.01; 0.89]	873	1.05
η_1	–5.80	[–6.74; –5.26]	1954	1.00
η_2	–5.62	[–7.35; –4.06]	1396	1.01
η_3	–5.75	[–8.02; –3.27]	2264	1.00
η_4	–5.67	[–8.37; –2.57]	2558	1.00
η_5	–4.87	[–8.25; –1.53]	1716	1.01
η_6	–3.83	[–8.28; –0.41]	1553	1.01

Stanislaus, Usa – PLM0



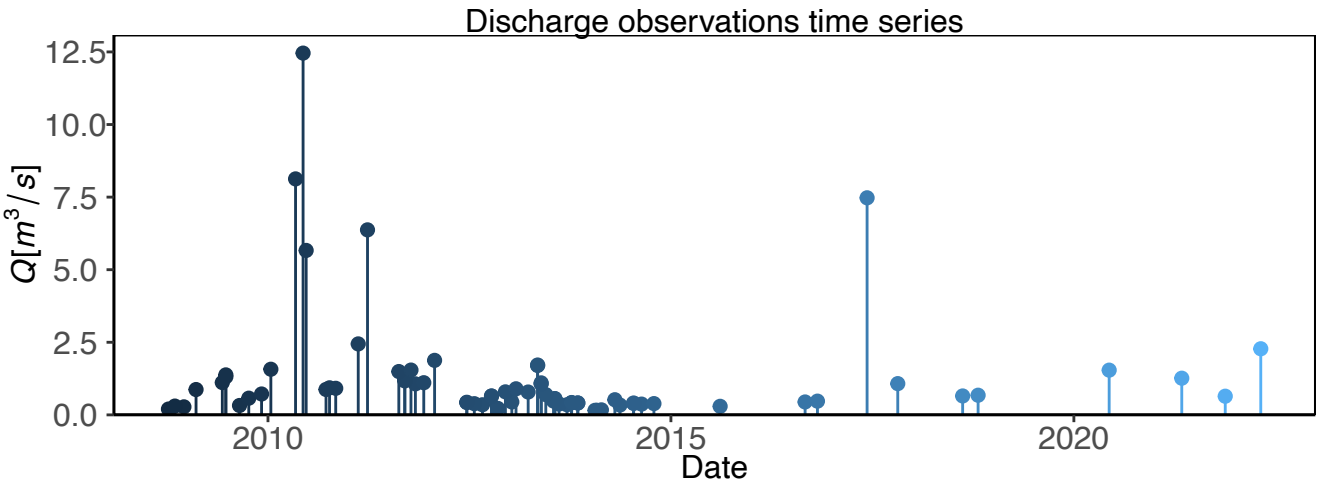
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	38.82	[35.54; 41.68]	9731	1.00
b	1.89	[1.77; 2.02]	10045	1.00
c	2.10	[2.06; 2.13]	9699	1.00
σ_ε	0.06	[0.05; 0.07]	9526	1.00

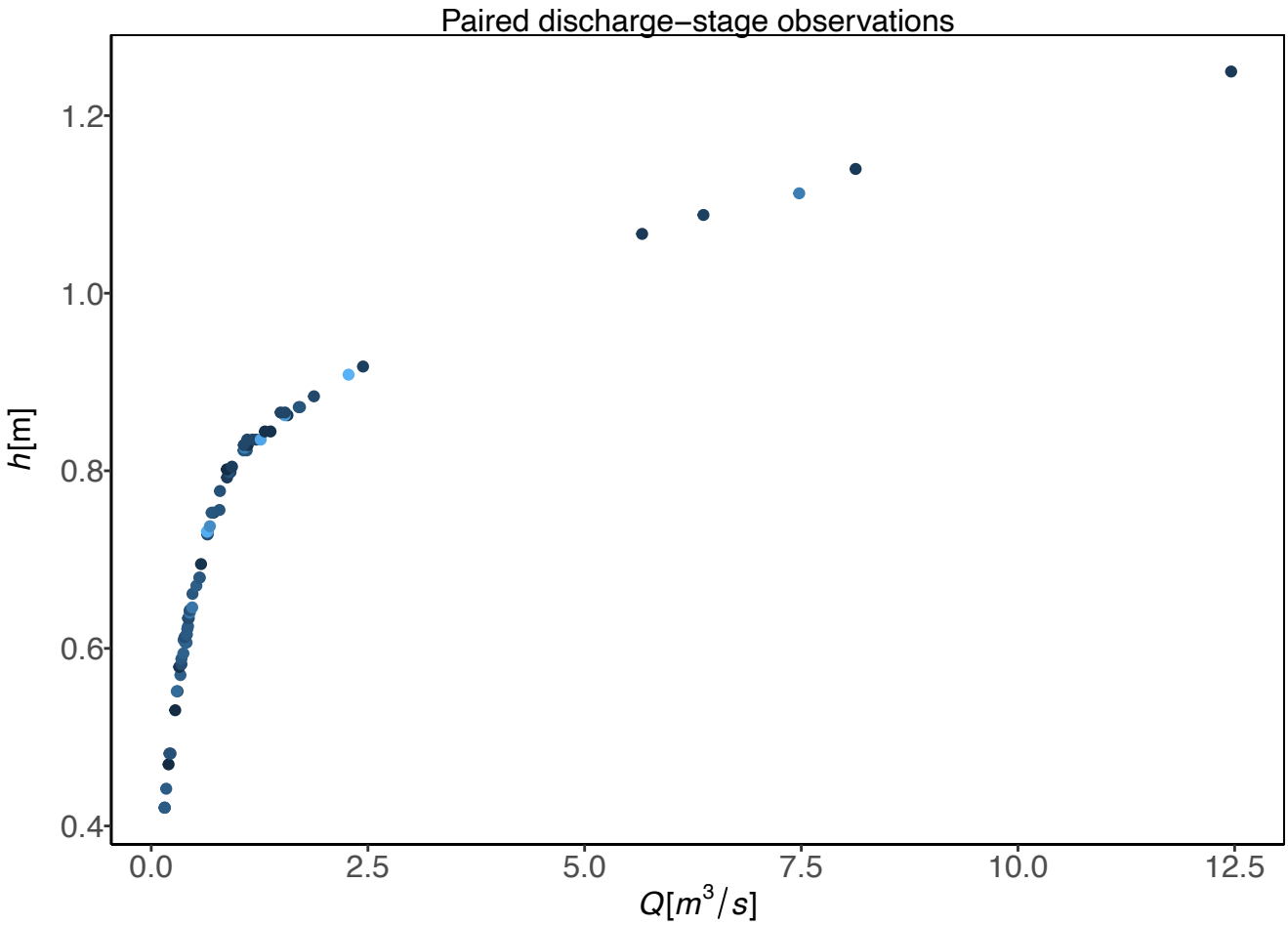
Power−law tournament results for Stanislaus, Usa



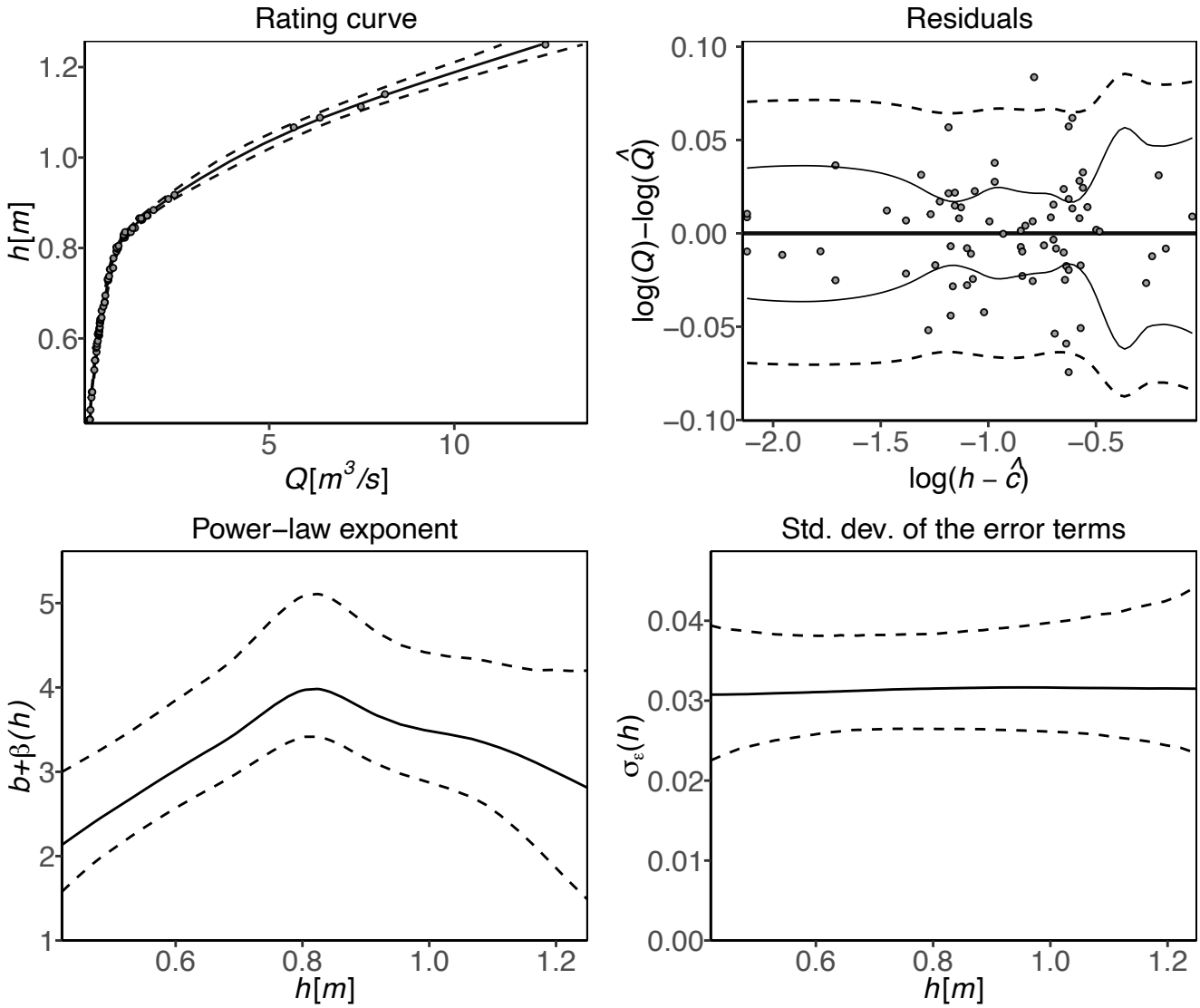
Station name:	Thule Springville
Location:	California, USA
Station number:	11202710
Number of observations:	73
Start date:	2008–10–07
End date:	2022–04–27
Max. discharge (m^3/s):	12.5
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.56	0.43
GPLM0	0.00	0.57
PLM	149.49	0.00
PLM0	293.06	0.00



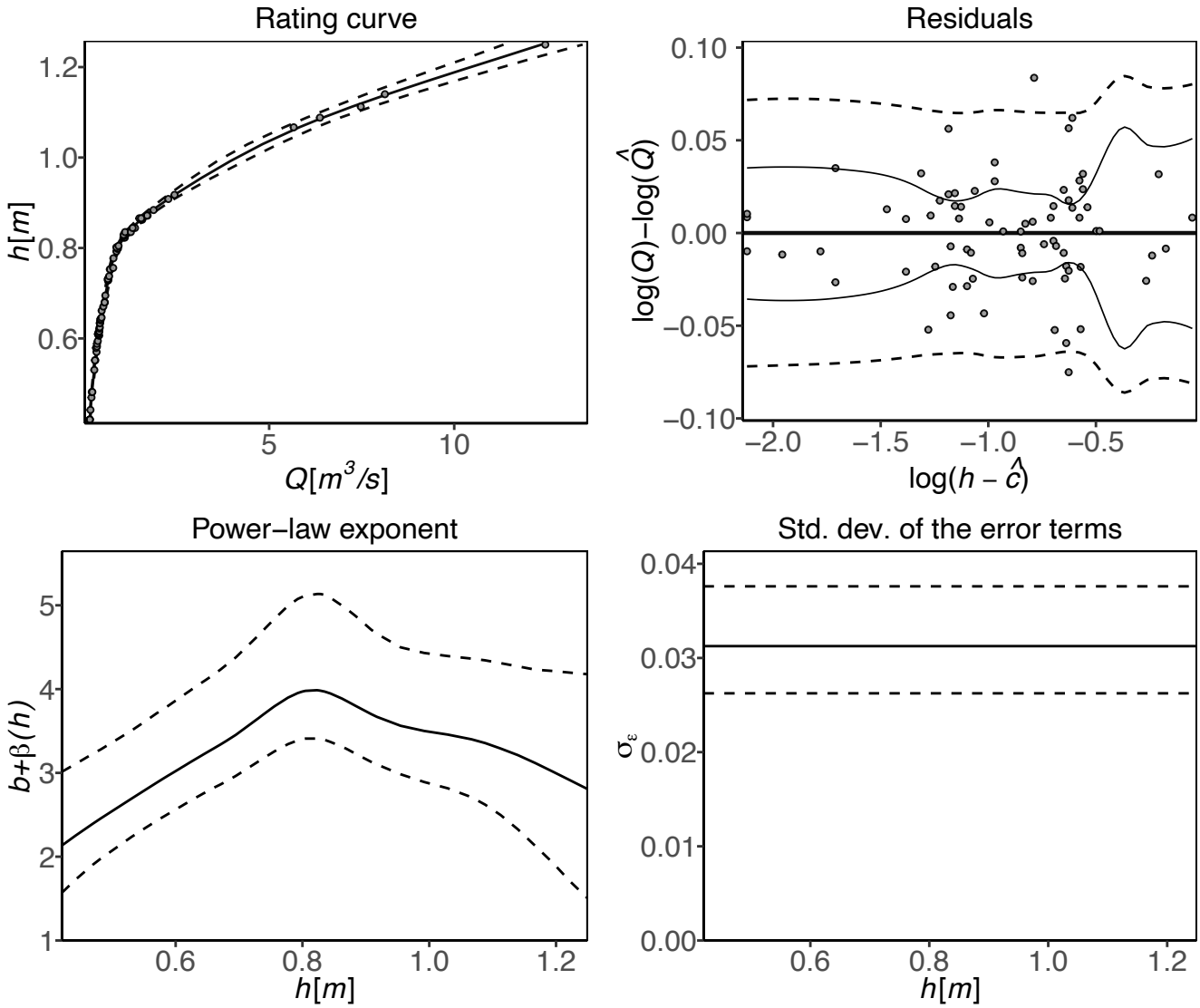


Thule Springville, Usa – GPLM



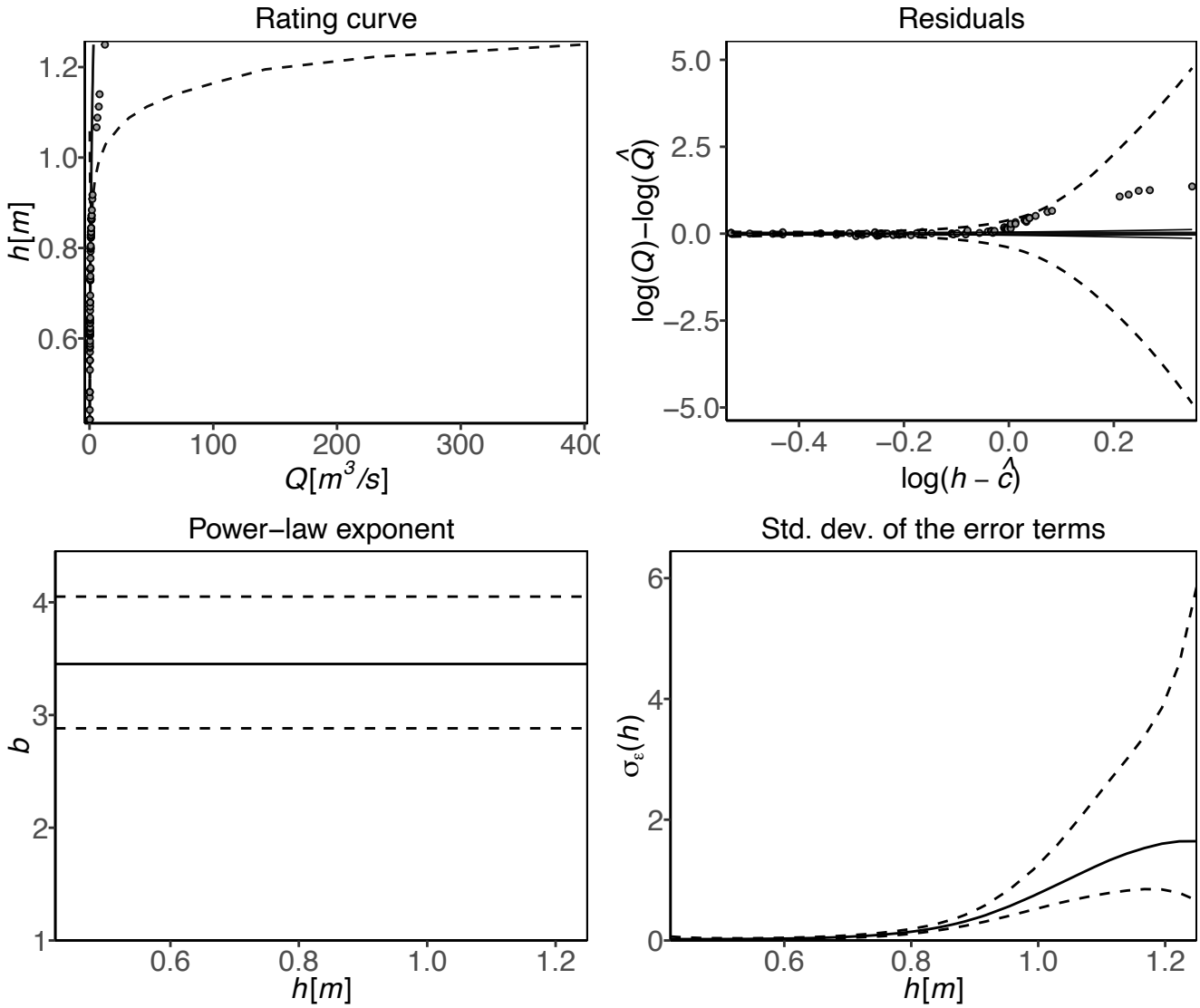
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	14.04	[8.91; 17.74]	2521	1.00
b	1.84	[1.83; 1.84]	9370	1.00
c	0.30	[0.16; 0.37]	2187	1.00
σ_β	0.92	[0.56; 1.58]	2256	1.00
ϕ_β	0.30	[0.21; 0.41]	2047	1.00
σ_η	0.08	[0.00; 0.42]	1413	1.00
η_1	–6.96	[–7.59; –6.47]	1573	1.00
η_2	–6.88	[–8.74; –5.08]	1976	1.00
η_3	–6.62	[–9.31; –4.04]	2226	1.00
η_4	–6.50	[–9.74; –3.43]	2280	1.00
η_5	–6.56	[–10.23; –2.87]	2156	1.00
η_6	–6.56	[–10.70; –2.43]	2070	1.00

Thule Springville, Usa – GPLM0



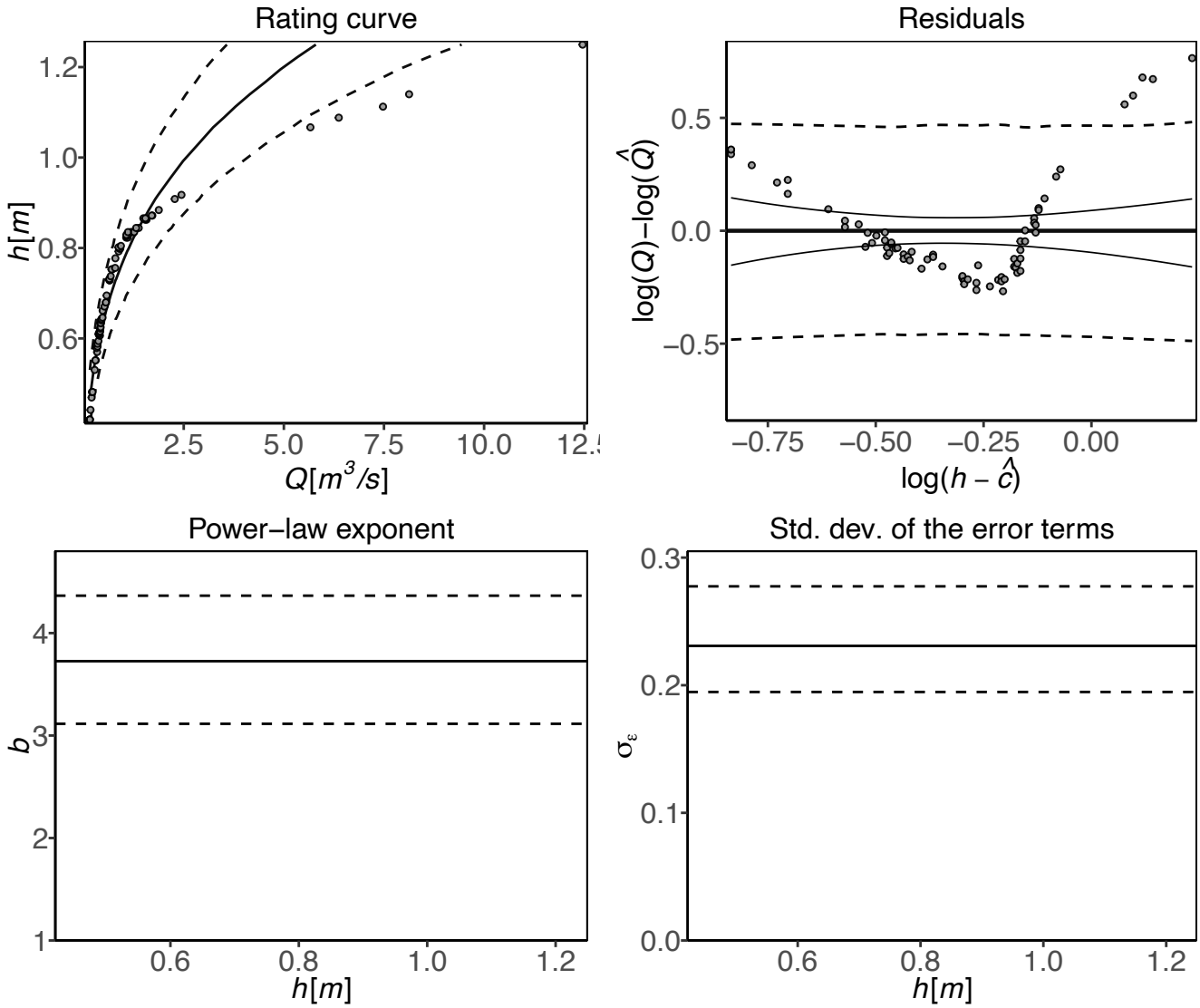
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	14.02	[8.90; 17.92]	5414	1.00
b	1.84	[1.83; 1.84]	10825	1.00
c	0.30	[0.16; 0.37]	5207	1.00
σ_ε	0.03	[0.03; 0.04]	5493	1.00
σ_β	0.96	[0.75; 1.25]	5388	1.00
ϕ_β	0.30	[0.21; 0.41]	5222	1.00

Thule Springville, Usa – PLM

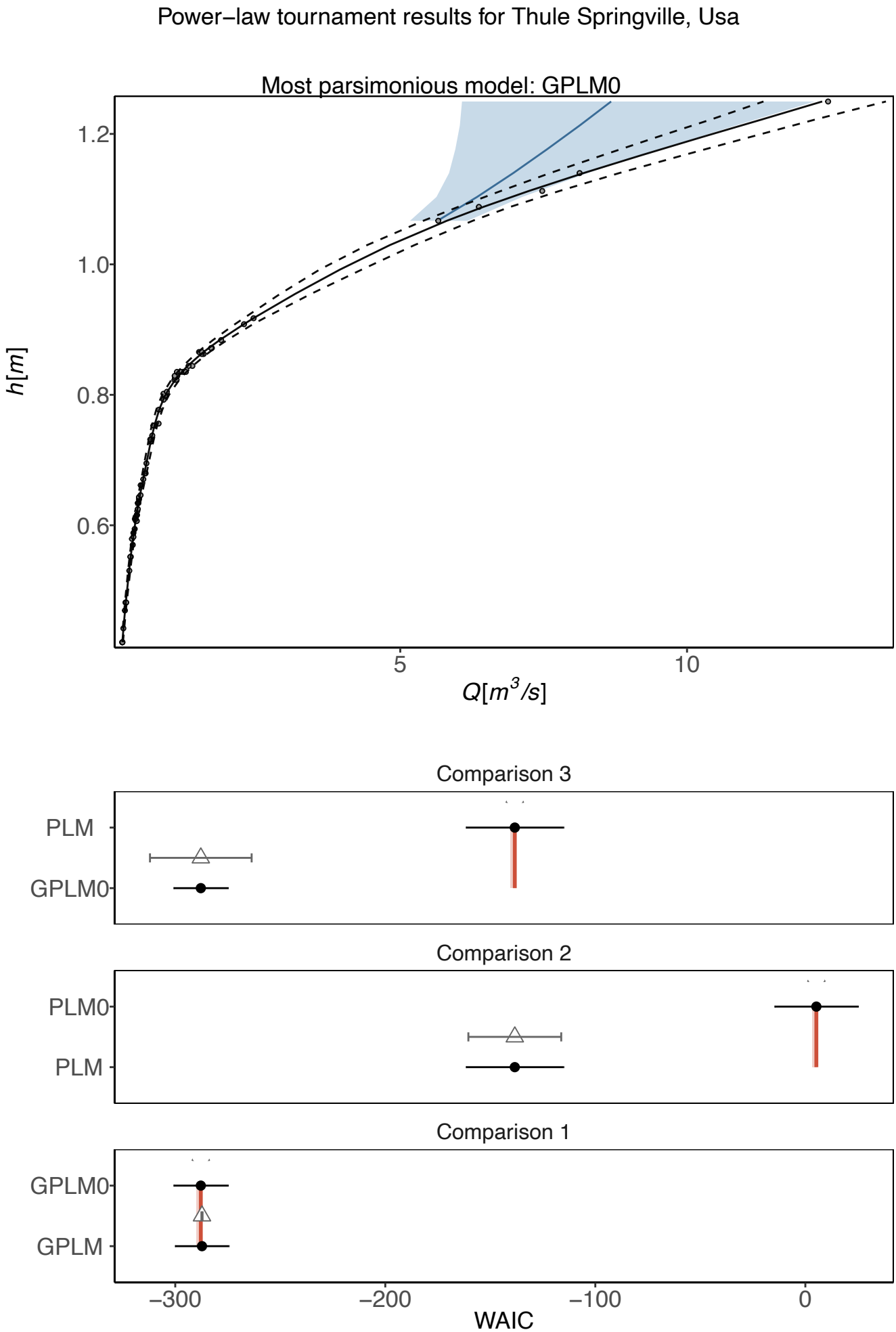


	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	0.94	[0.60; 1.35]	2361	1.00
b	3.45	[2.88; 4.05]	2438	1.00
c	–0.17	[–0.29; –0.05]	2314	1.00
σ_η	1.64	[1.16; 2.29]	1929	1.00
η_1	–7.56	[–9.17; –5.46]	1930	1.00
η_2	–7.73	[–8.64; –6.53]	1903	1.00
η_3	–6.70	[–7.94; –5.53]	2201	1.00
η_4	–2.91	[–4.43; –1.44]	2467	1.00
η_5	–2.24	[–4.17; –0.04]	2306	1.00
η_6	–2.21	[–4.29; 0.34]	2471	1.00

Thule Springville, Usa – PLM0

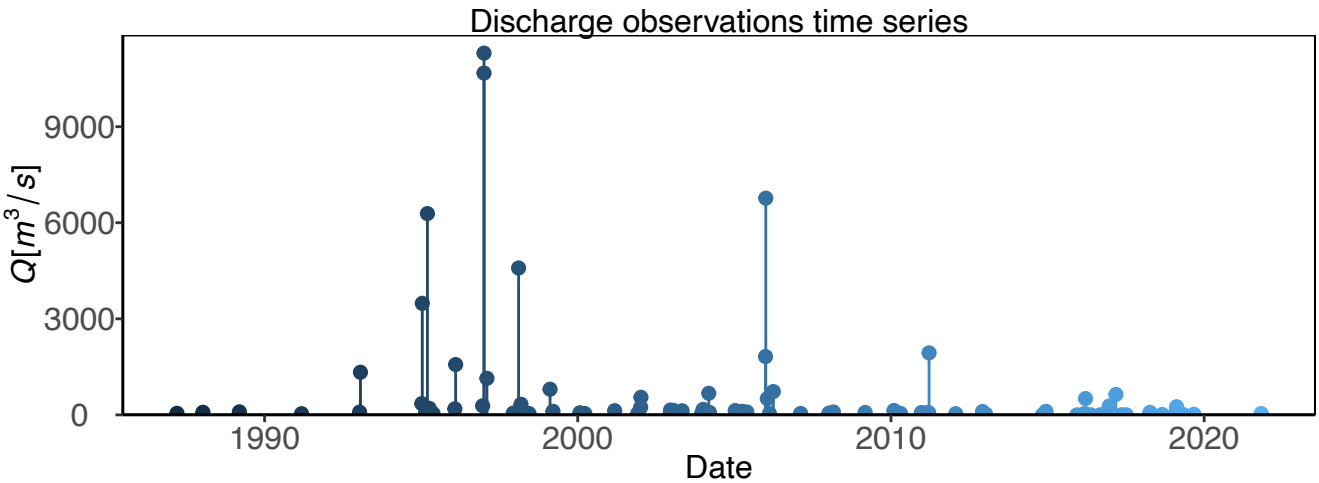


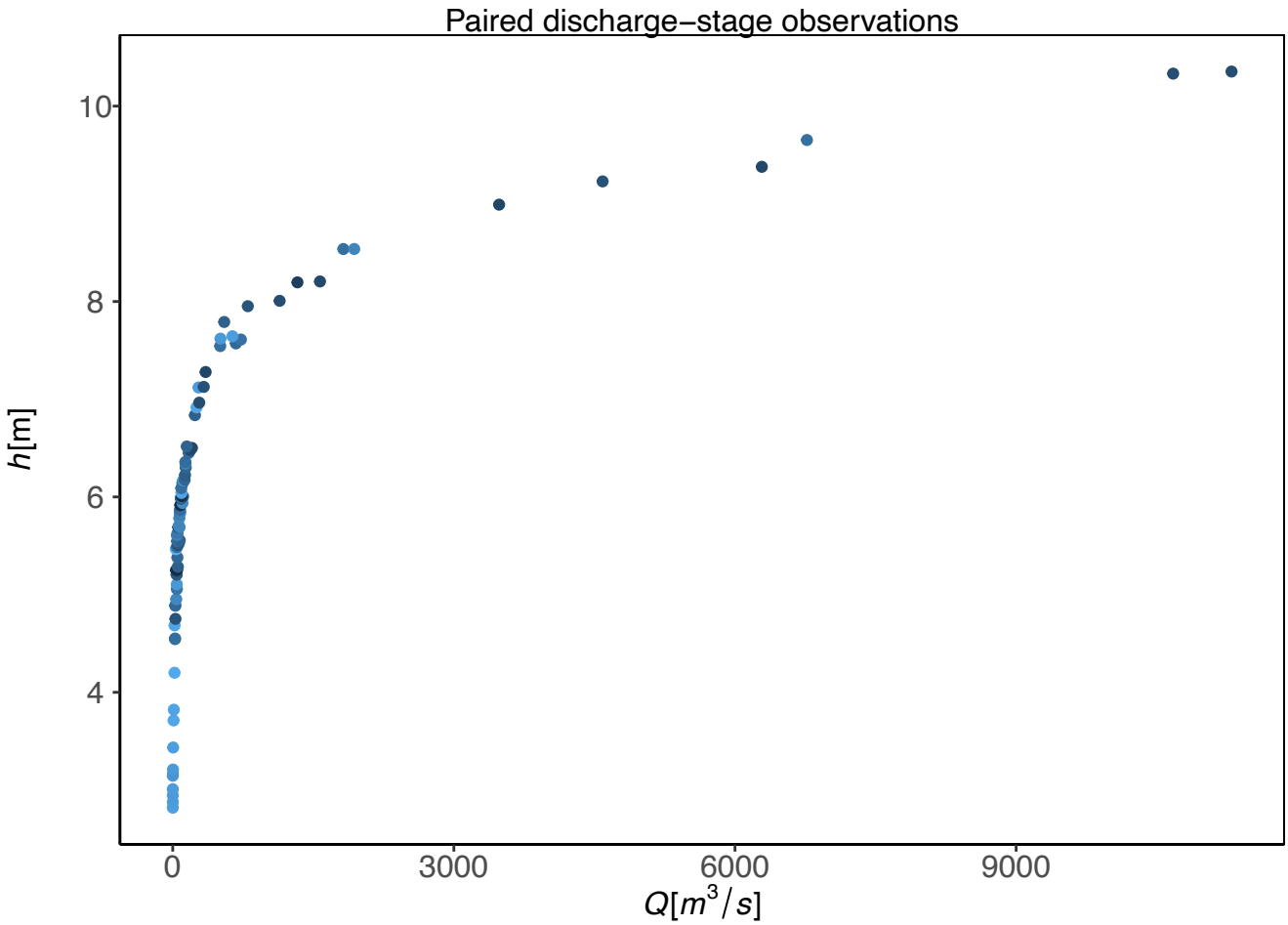
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	2.44	[1.51; 3.52]	9533	1.00
b	3.73	[3.11; 4.37]	9513	1.00
c	–0.01	[–0.13; 0.09]	8674	1.00
σ_ε	0.23	[0.19; 0.28]	9058	1.00


Power−law tournament results for Thule Springville, Usa
Most parsimonious model: GPLM0
1.2
1.0
0.8
0.6
h[m]
5
10
Q[m³/s]
Comparison 3
PLM
GPLM0
Comparison 2
PLM0
PLM
Comparison 1
GPLM0
GPLM
−300
−200
−100
0
WAIC

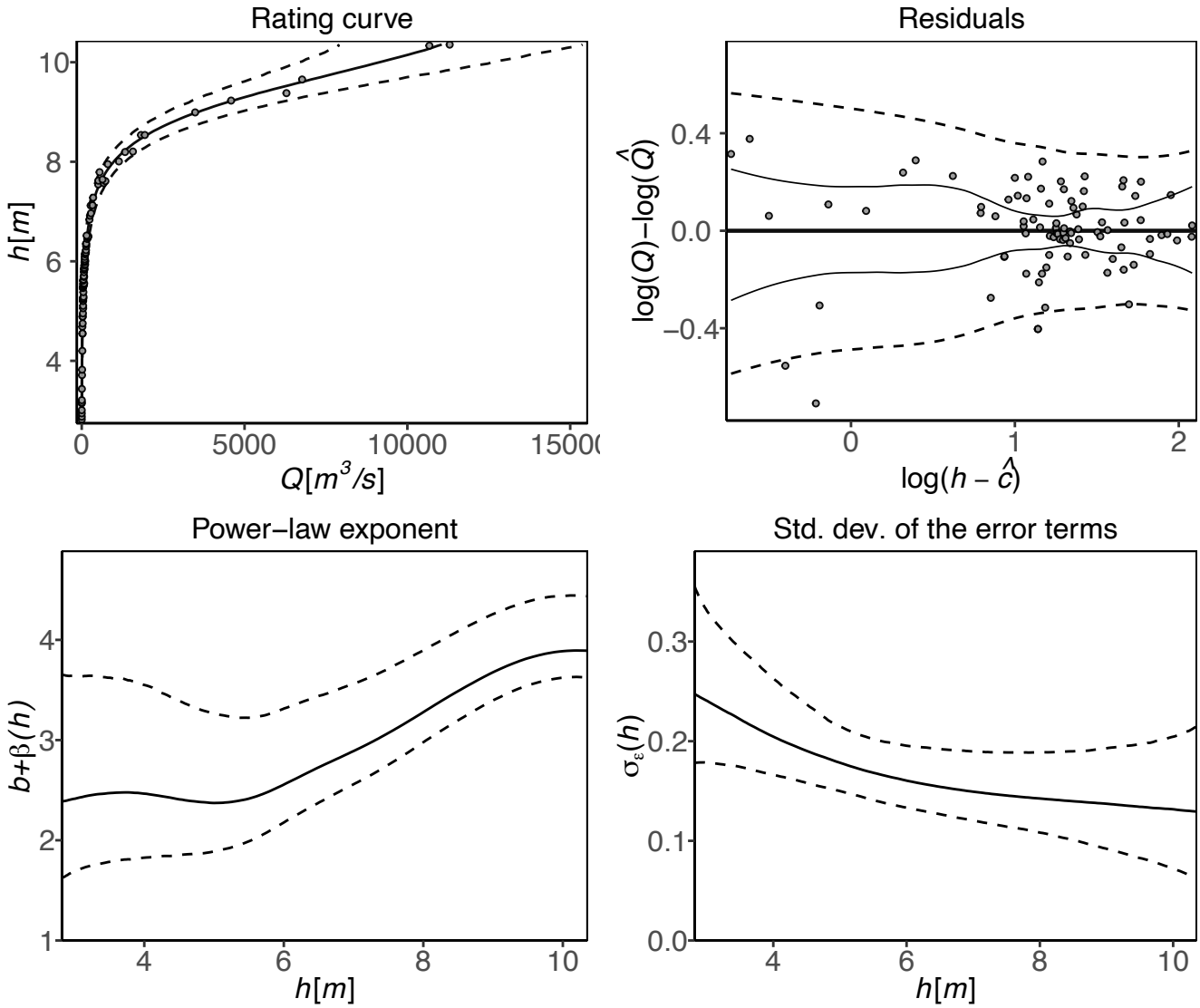
Station name:	Yolo
Location:	California, USA
Station number:	11453000
Number of observations:	88
Start date:	1987–03–16
End date:	2021–10–27
Max. discharge (m^3/s):	11298.4
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	1
GPLM0	14.75	0
PLM	115.25	0
PLM0	172.92	0



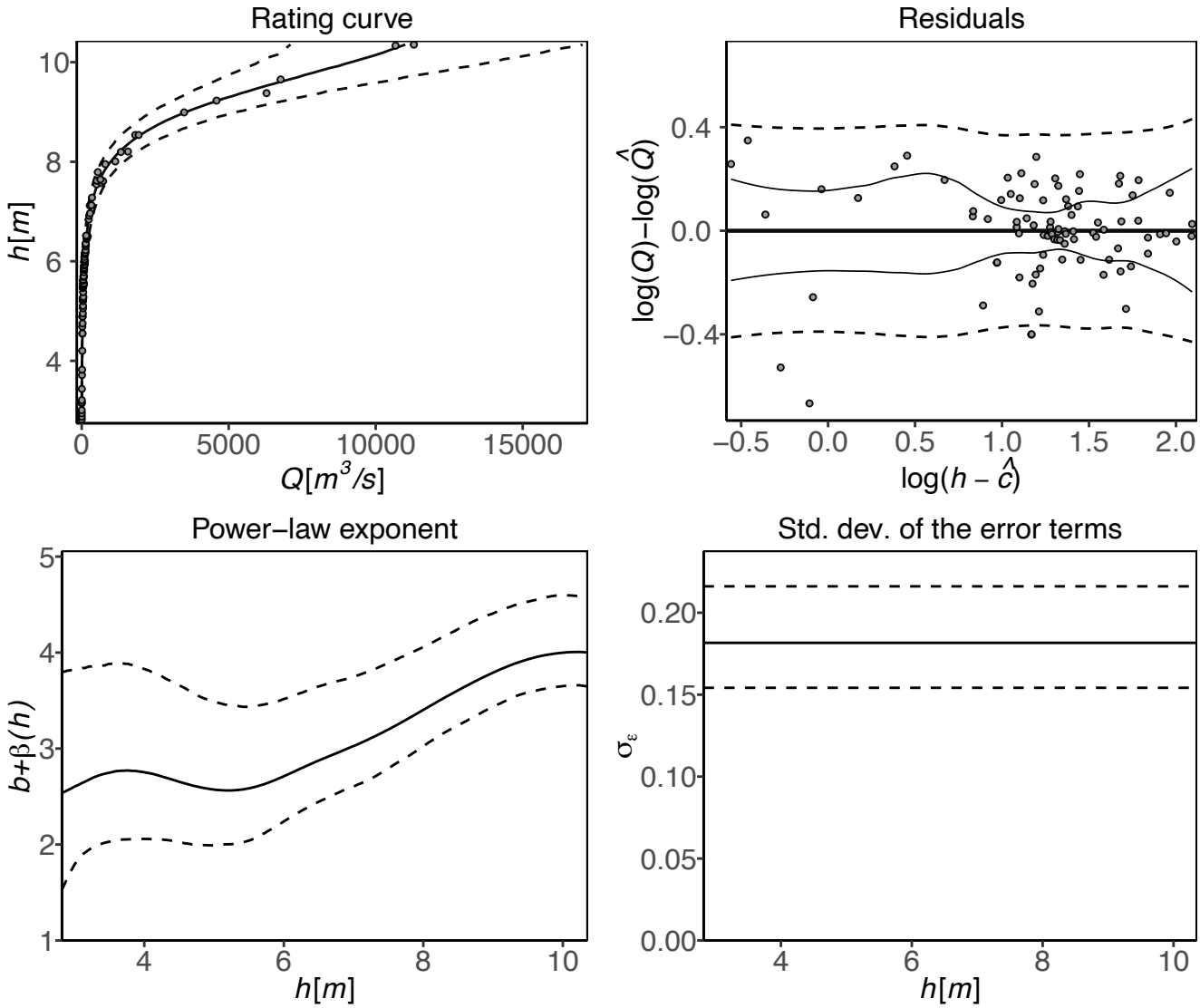


Yolo, Usa – GPLM



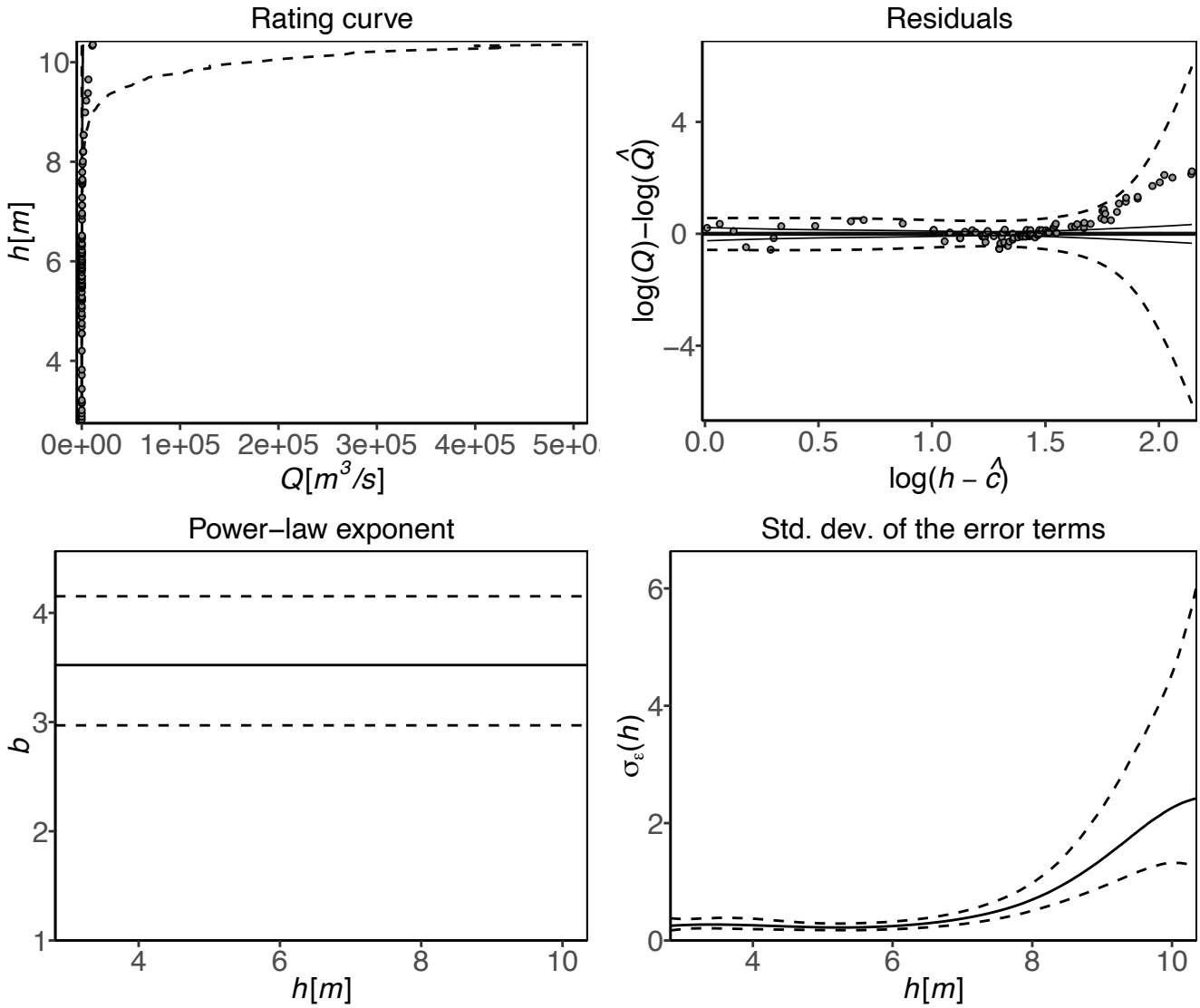
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	3.35	[0.86; 6.29]	2213	1.00
b	1.84	[1.83; 1.84]	10431	1.00
c	2.34	[1.90; 2.59]	2034	1.00
σ_β	0.88	[0.55; 1.50]	2174	1.00
ϕ_β	3.89	[2.10; 7.16]	2363	1.00
σ_η	0.38	[0.05; 0.80]	936	1.07
η_1	–2.79	[–3.45; –2.07]	1552	1.02
η_2	–3.48	[–5.15; –1.99]	1923	1.01
η_3	–4.89	[–6.79; –3.28]	1737	1.01
η_4	–5.58	[–7.97; –3.56]	2040	1.00
η_5	–5.91	[–8.88; –3.35]	2138	1.00
η_6	–6.20	[–9.63; –2.96]	2209	1.00

Yolo, Usa – GPLM0



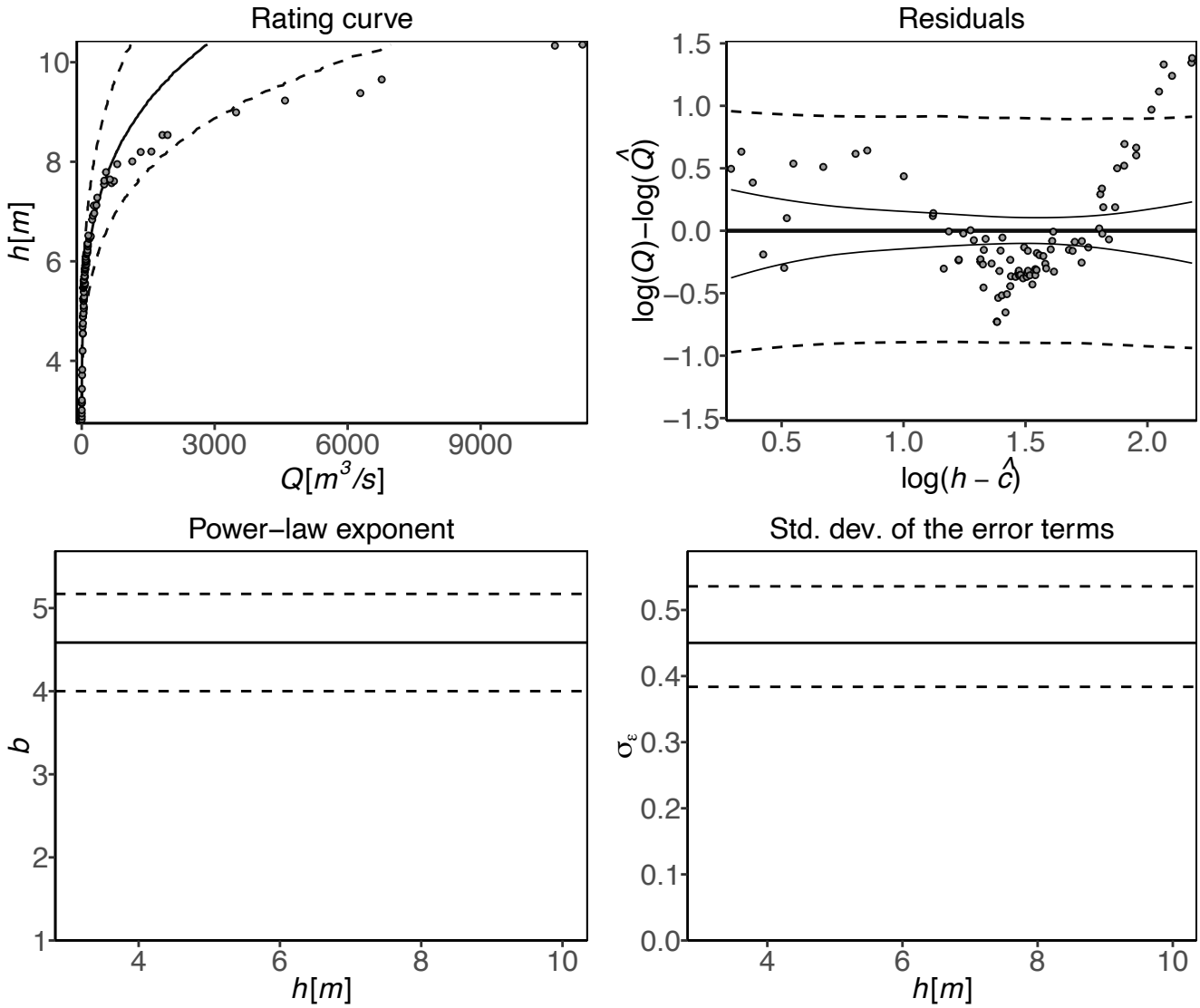
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	2.55	[0.59; 5.77]	4054	1.00
b	1.84	[1.83; 1.84]	11708	1.00
c	2.25	[1.78; 2.57]	2773	1.00
σ_ε	0.18	[0.15; 0.22]	4586	1.00
σ_β	0.96	[0.76; 1.26]	5097	1.00
ϕ_β	3.53	[1.50; 7.14]	4017	1.00

Yolo, Usa – PLM



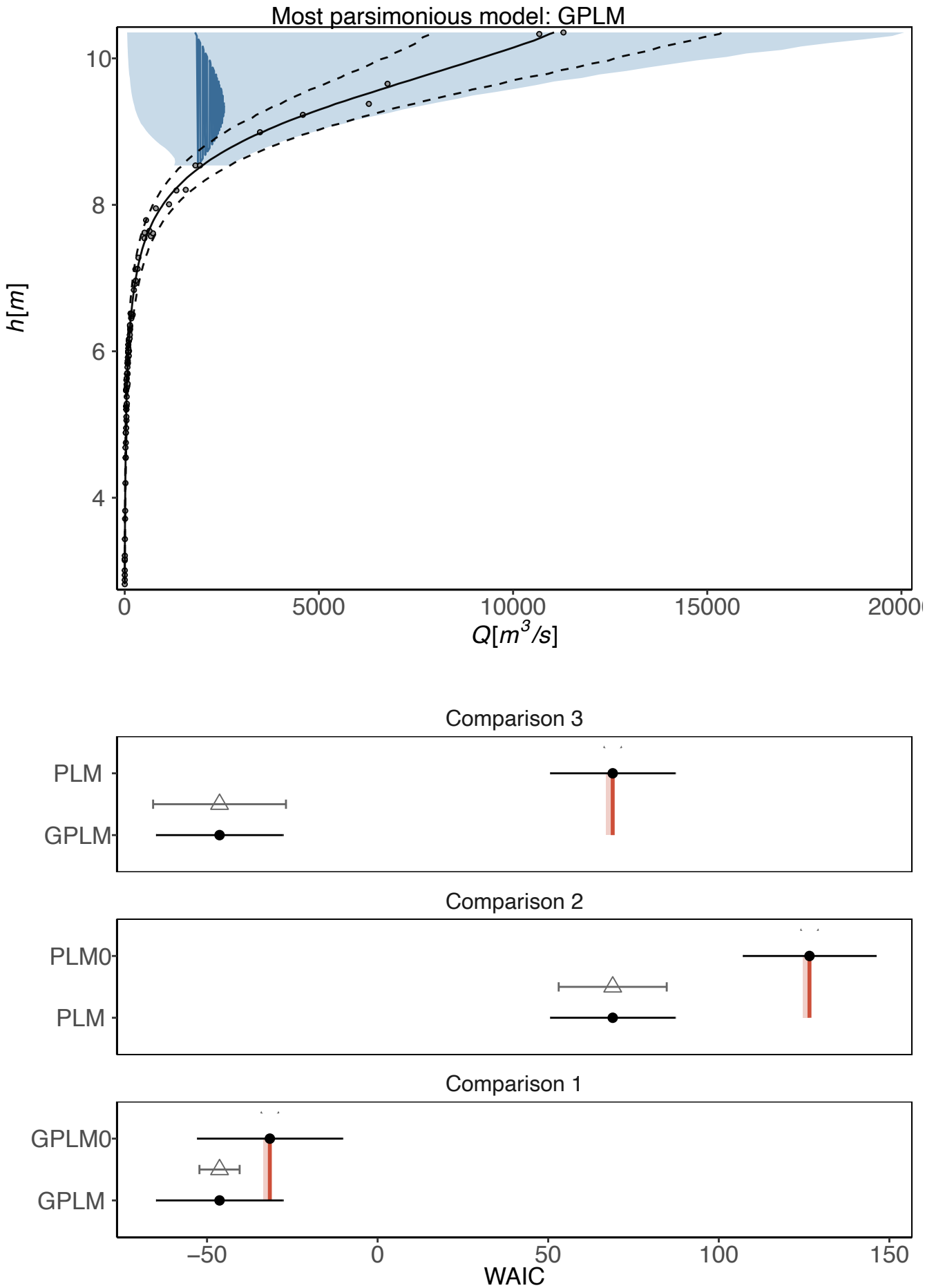
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	0.62	[0.18; 1.65]	2803	1.00
b	3.52	[2.97; 4.15]	2851	1.00
c	1.81	[1.43; 2.12]	2724	1.00
σ_η	1.21	[0.77; 1.87]	2188	1.00
η_1	–2.77	[–3.54; –1.95]	2614	1.00
η_2	–2.38	[–3.33; –1.44]	2465	1.00
η_3	–3.65	[–4.39; –2.81]	2517	1.00
η_4	–1.45	[–2.46; –0.32]	2589	1.00
η_5	0.86	[–0.53; 2.51]	2548	1.00
η_6	1.04	[–0.66; 3.34]	2624	1.00

Yolo, Usa – PLM0



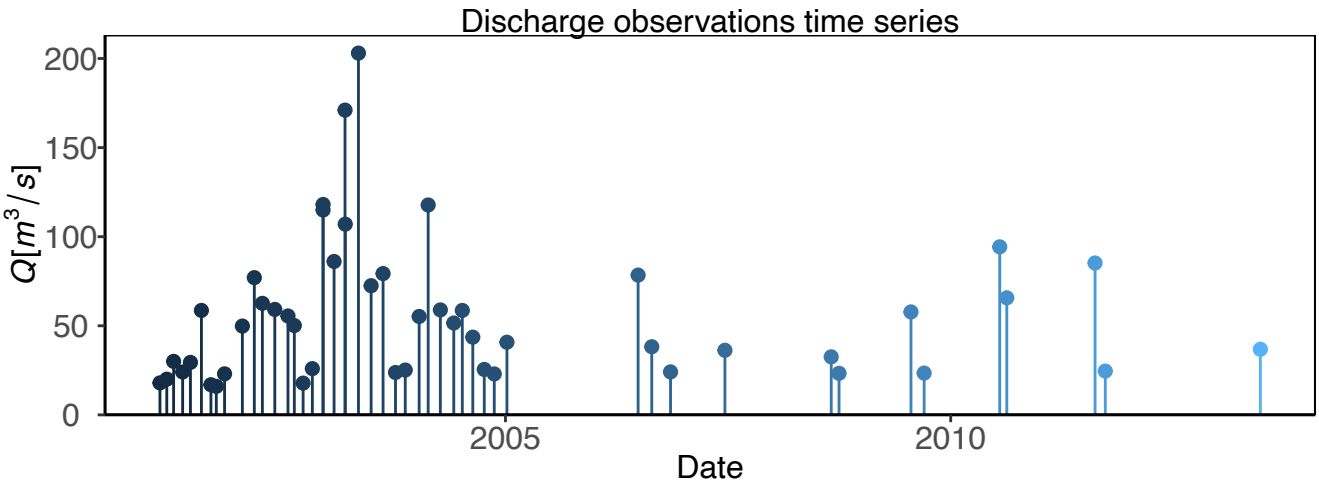
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	0.13	[0.03; 0.43]	9989	1.00
b	4.59	[4.00; 5.17]	10295	1.00
c	1.48	[1.09; 1.84]	9515	1.00
σ_ε	0.45	[0.38; 0.54]	10109	1.00

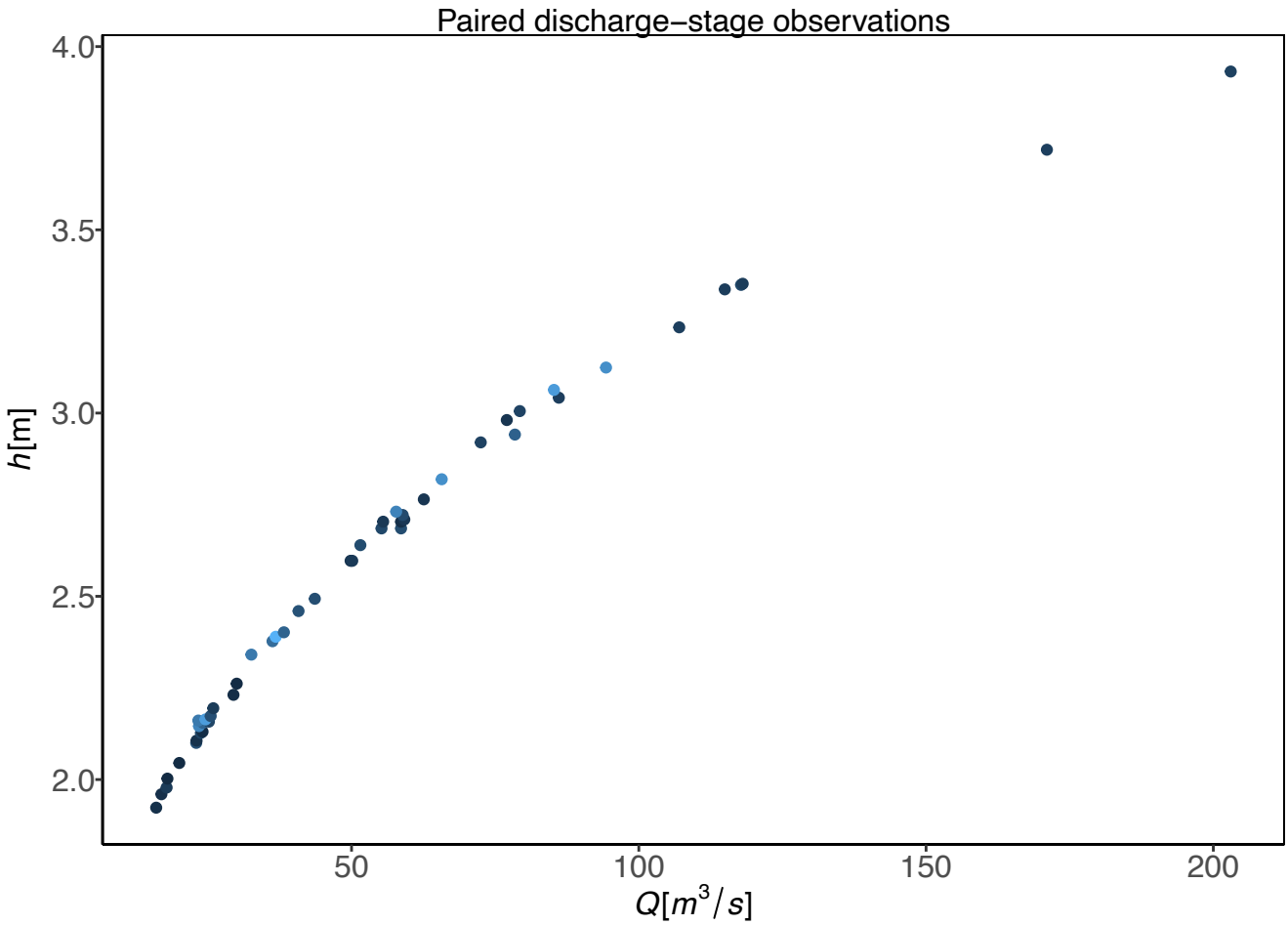
Power−law tournament results for Yolo, Usa



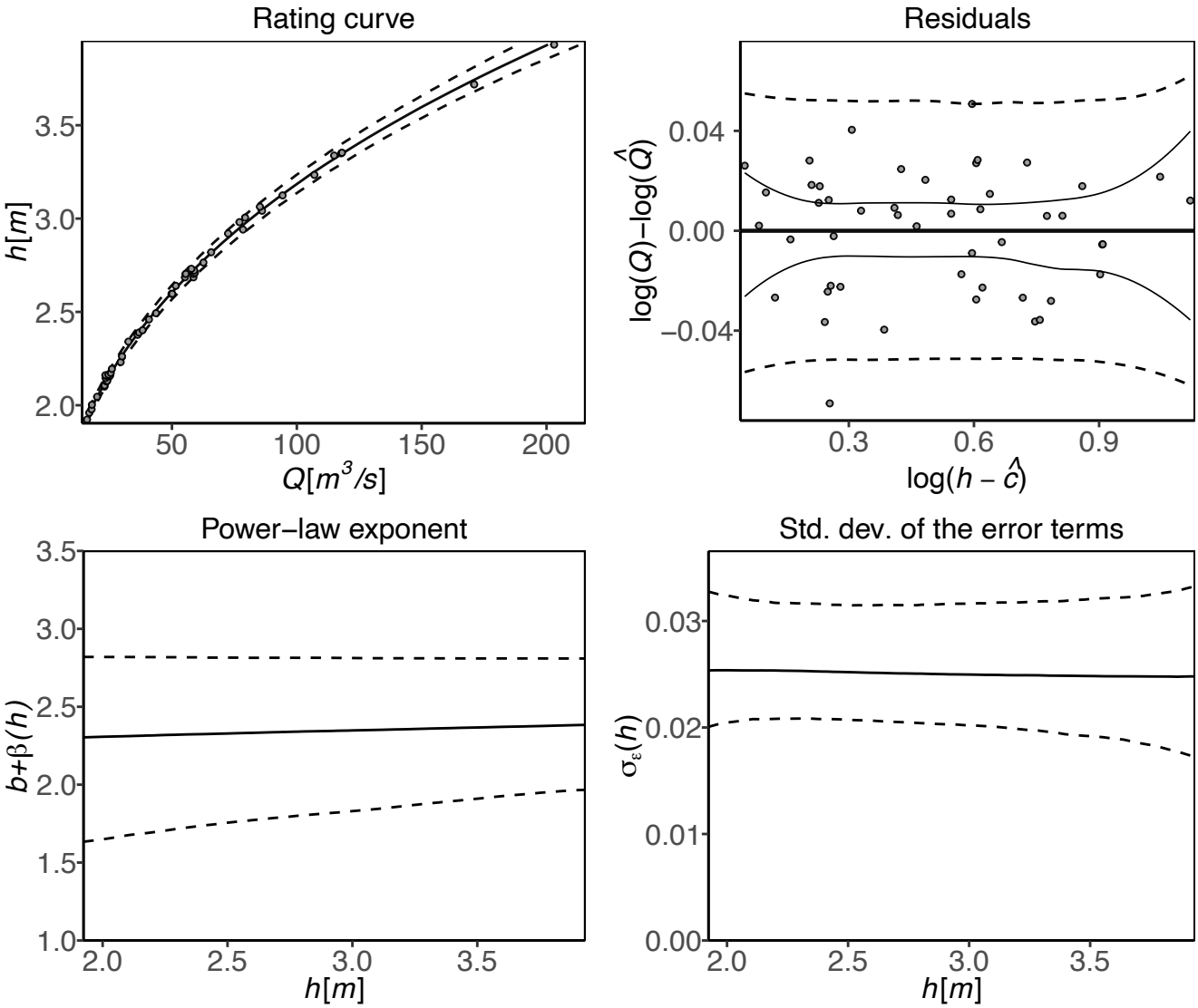
Station name:	Yuba
Location:	California, USA
Station number:	11418000
Number of observations:	49
Start date:	2001–02–14
End date:	2013–06–24
Max. discharge (m^3/s):	203
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.48	0.22
GPLM0	0.25	0.24
PLM	0.08	0.26
PLM0	0.00	0.28



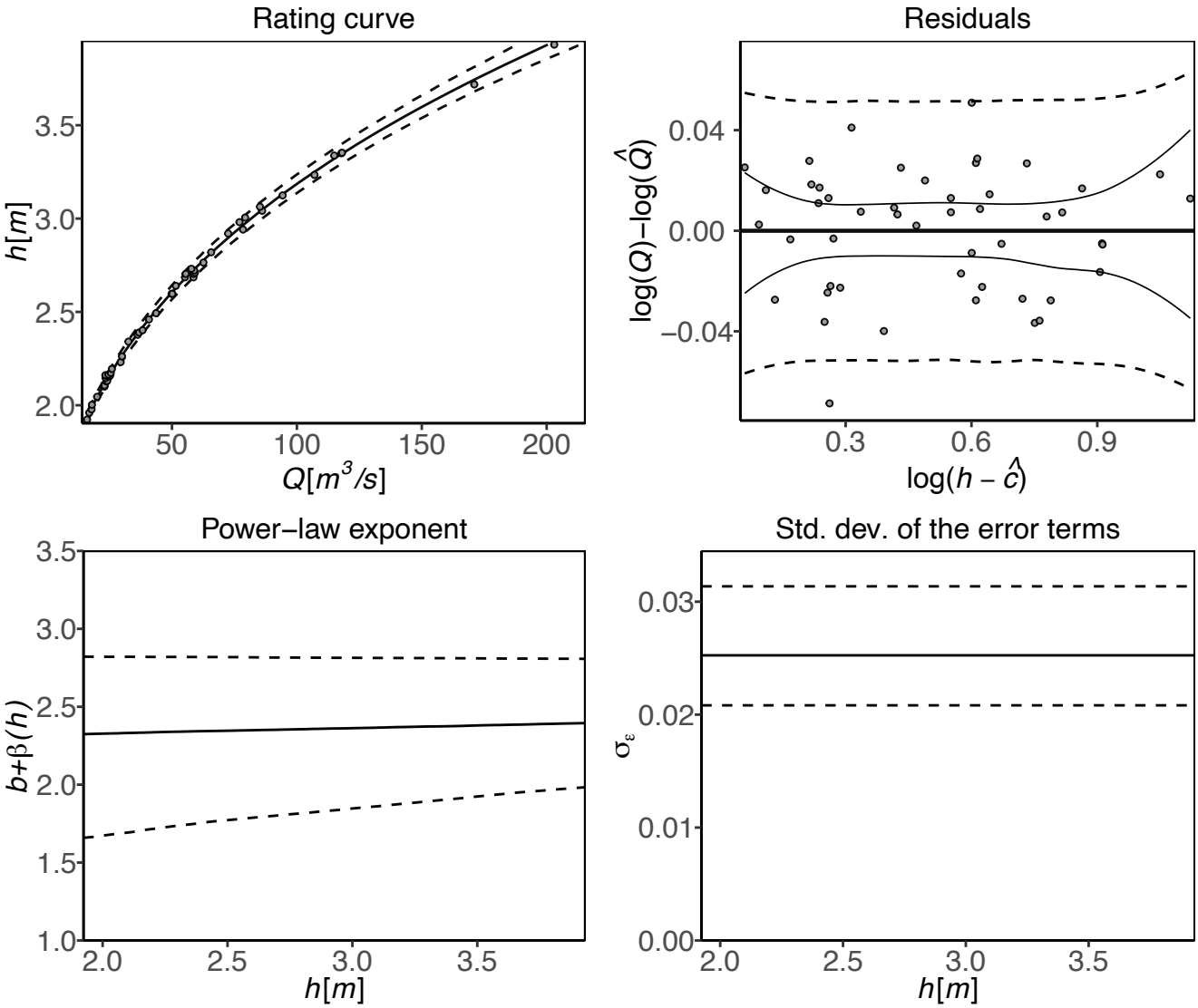


Yuba, Usa – GPLM



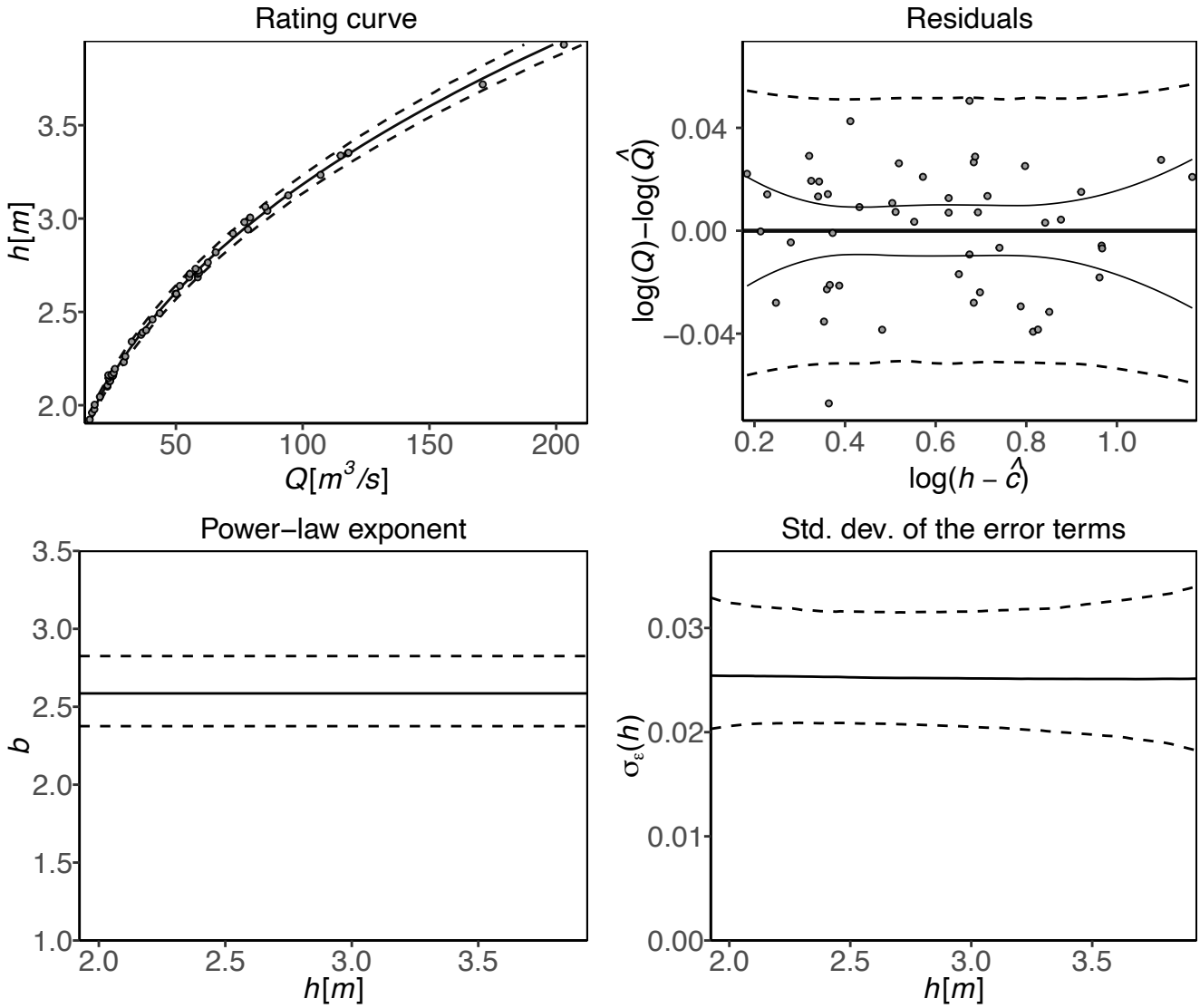
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	13.88	[6.72; 28.99]	1619	1.02
b	1.84	[1.83; 1.84]	8190	1.00
c	0.87	[0.57; 1.24]	1594	1.02
σ_β	0.41	[0.14; 0.96]	2219	1.00
ϕ_β	11.03	[1.23; 55597.09]	796	1.09
σ_η	0.08	[0.00; 0.41]	1391	1.00
η_1	−7.35	[−7.82; −6.84]	1674	1.01
η_2	−7.36	[−9.17; −5.57]	2070	1.00
η_3	−7.49	[−10.02; −4.92]	2094	1.00
η_4	−7.60	[−10.71; −4.34]	2084	1.00
η_5	−7.69	[−11.43; −3.78]	2035	1.00
η_6	−7.76	[−12.02; −3.27]	2187	1.00

Yuba, Usa – GPLM0



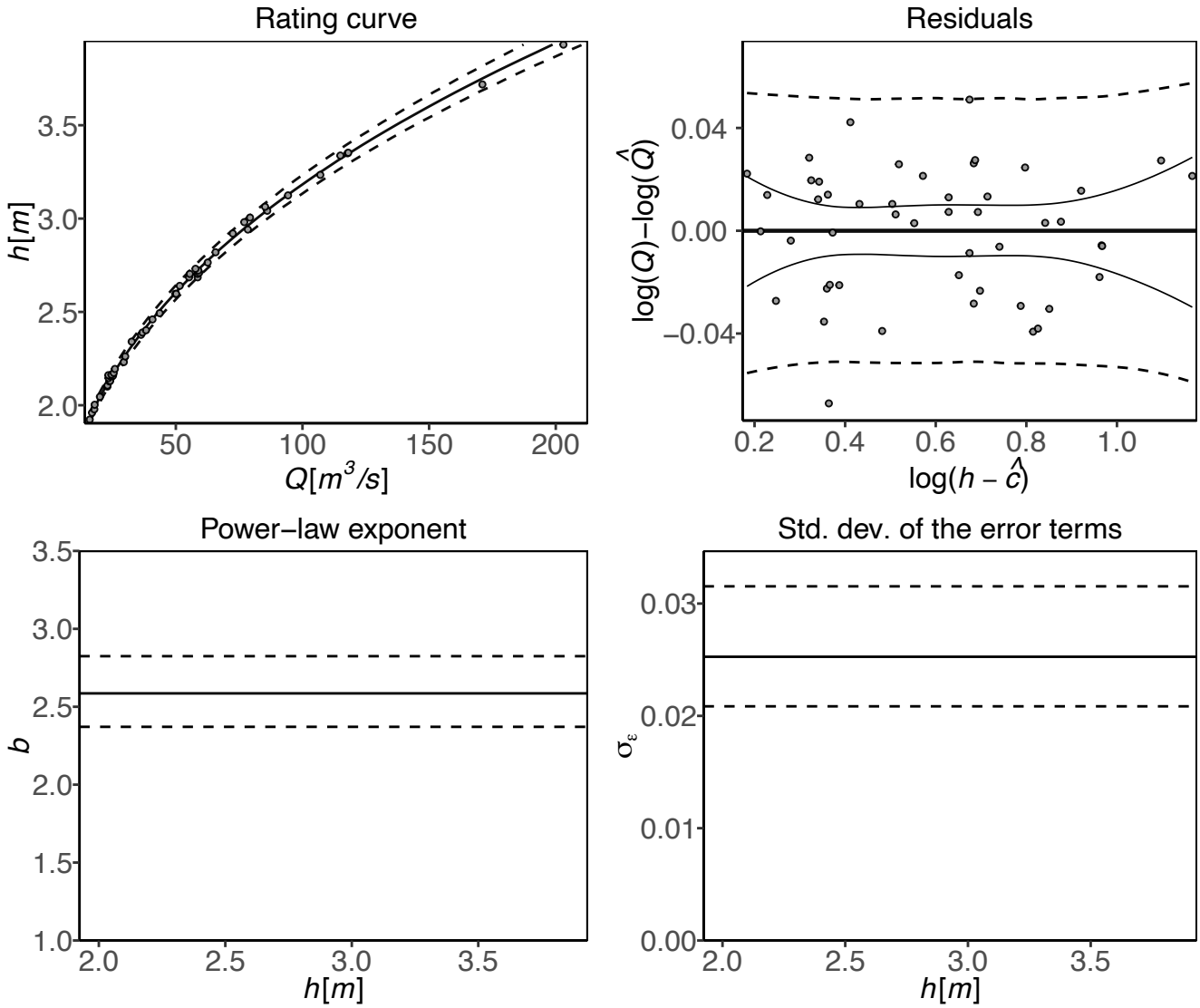
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	13.57	[6.74; 28.26]	2501	1.00
b	1.84	[1.83; 1.84]	9883	1.00
c	0.86	[0.57; 1.23]	2566	1.00
σ_ε	0.03	[0.02; 0.03]	3962	1.00
σ_β	0.63	[0.38; 0.96]	4326	1.00
ϕ_β	12.21	[1.28; 69059.04]	849	1.06

Yuba, Usa – PLM



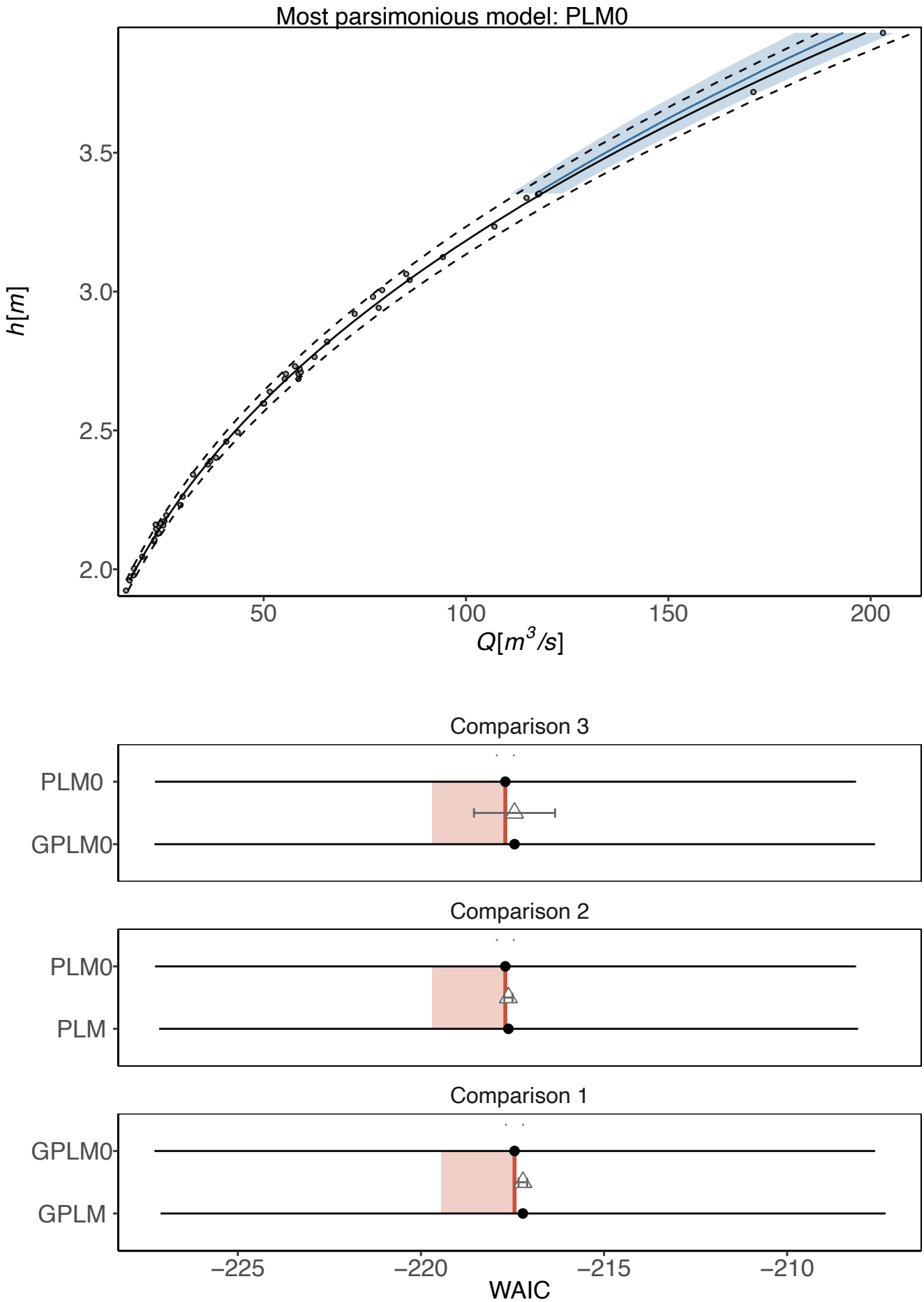
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.74	[6.53; 13.55]	2628	1.00
b	2.59	[2.38; 2.83]	2652	1.00
c	0.72	[0.55; 0.87]	2645	1.00
σ_η	0.08	[0.00; 0.37]	1798	1.00
η_1	–7.34	[–7.79; –6.83]	2480	1.00
η_2	–7.32	[–9.18; –5.53]	2643	1.00
η_3	–7.43	[–10.00; –4.87]	2826	1.00
η_4	–7.55	[–10.62; –4.39]	2998	1.00
η_5	–7.56	[–11.15; –3.87]	2926	1.00
η_6	–7.55	[–11.66; –3.39]	2733	1.00

Yuba, Usa – PLM0



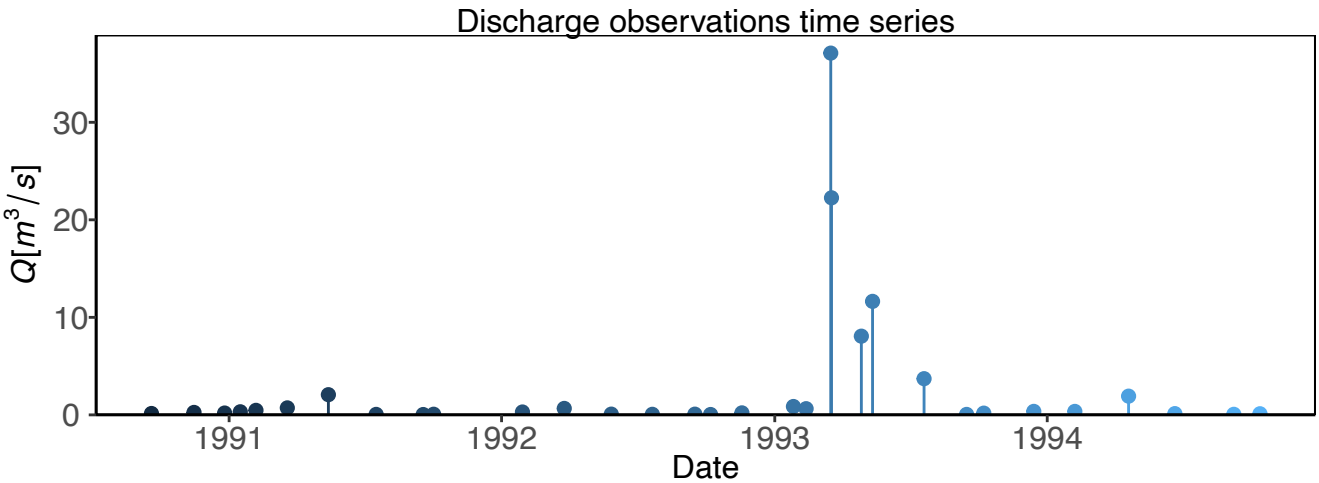
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	9.75	[6.54; 13.69]	9787	1.00
b	2.59	[2.37; 2.82]	9759	1.00
c	0.72	[0.55; 0.87]	9688	1.00
σ_ε	0.03	[0.02; 0.03]	9931	1.00

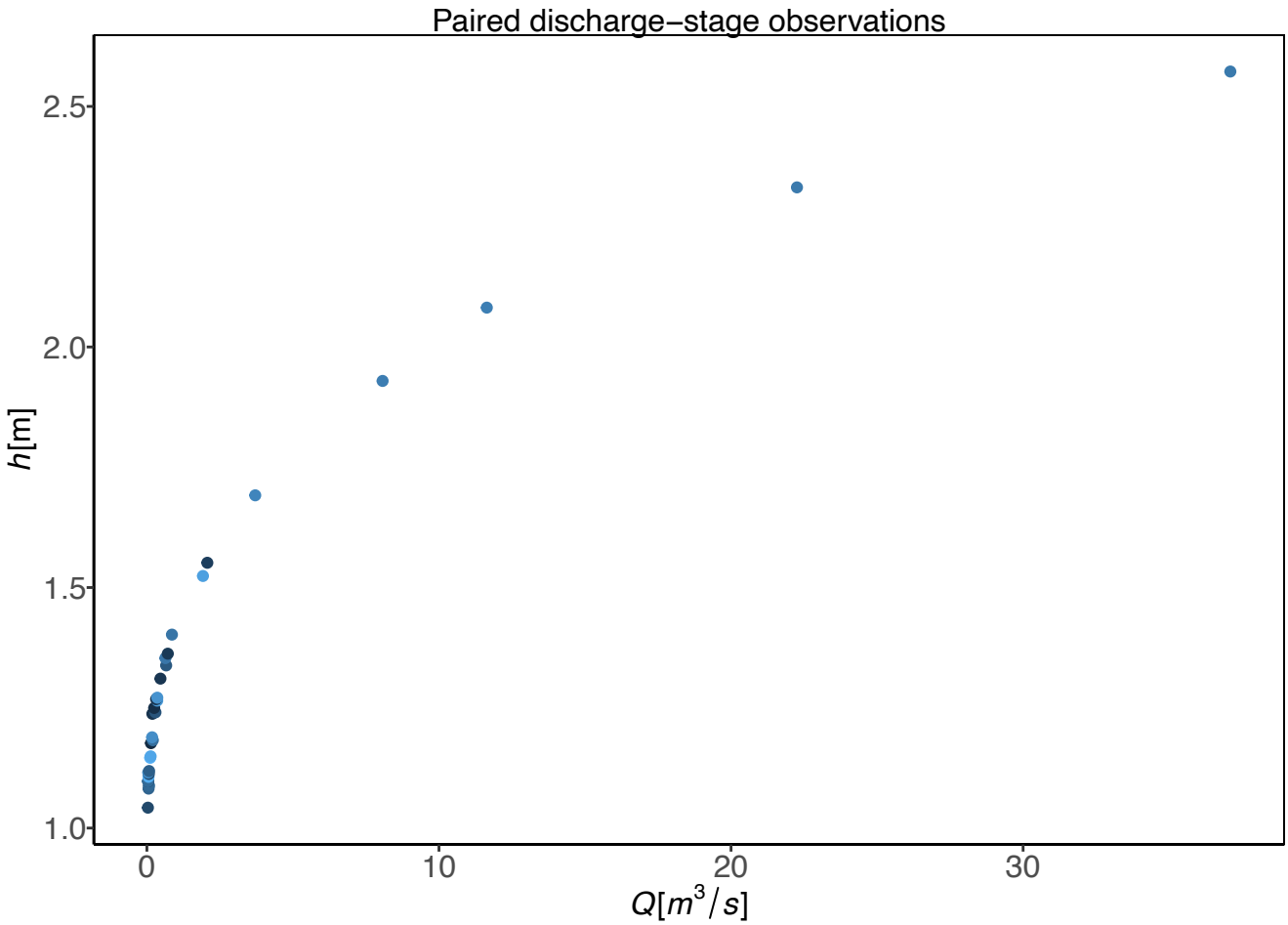
Power–law tournament results for Yuba, Usa



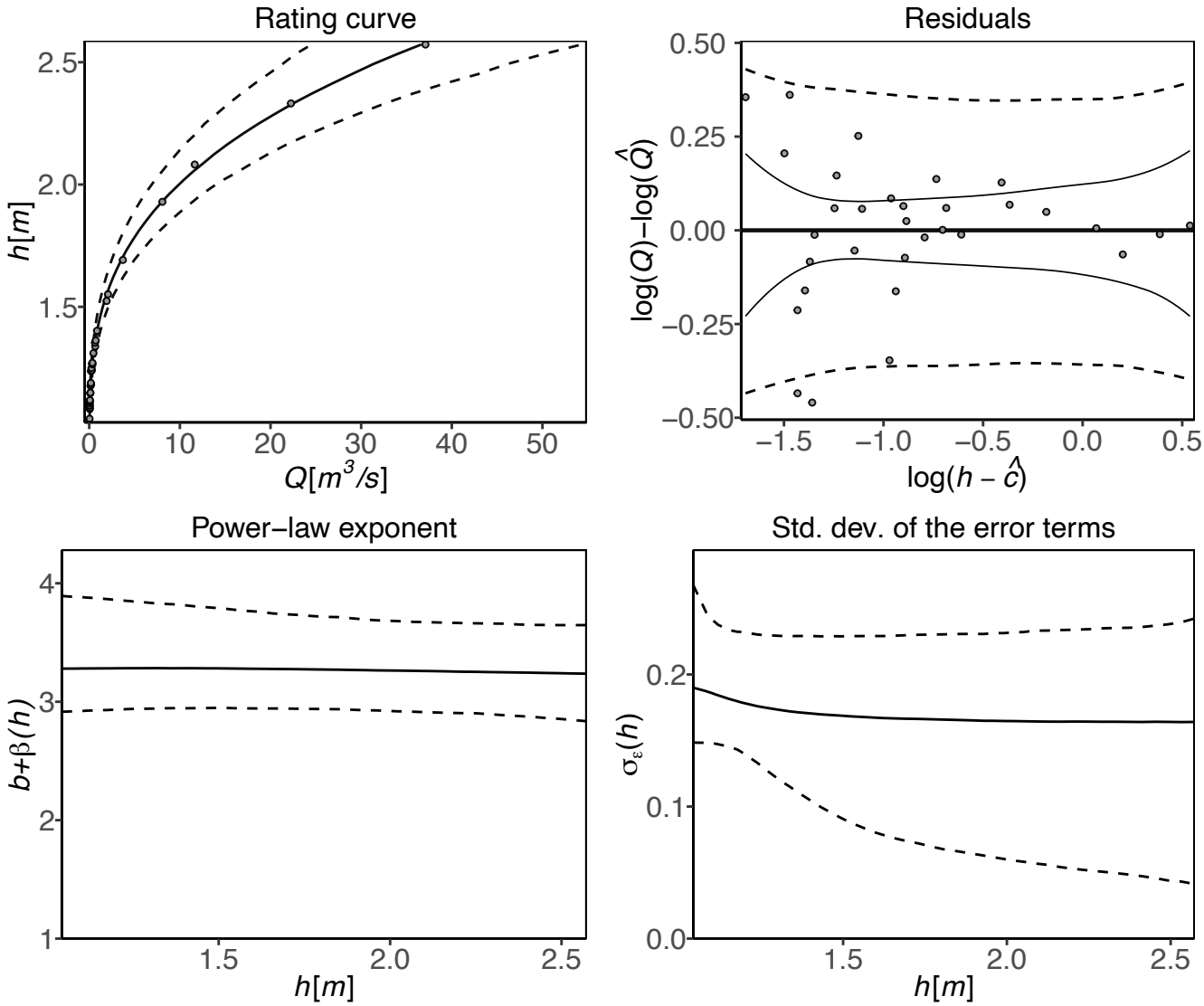
Station name:	Susan
Location:	California, USA
Station number:	10356500
Number of observations:	32
Start date:	1990–09–19
End date:	1994–10–13
Max. discharge (m^3/s):	37.1
Tournament winner:	PLM

	dWAIC	Akaike weights
GPLM	0.00	0.43
GPLM0	2.58	0.12
PLM	0.19	0.39
PLM0	3.88	0.06



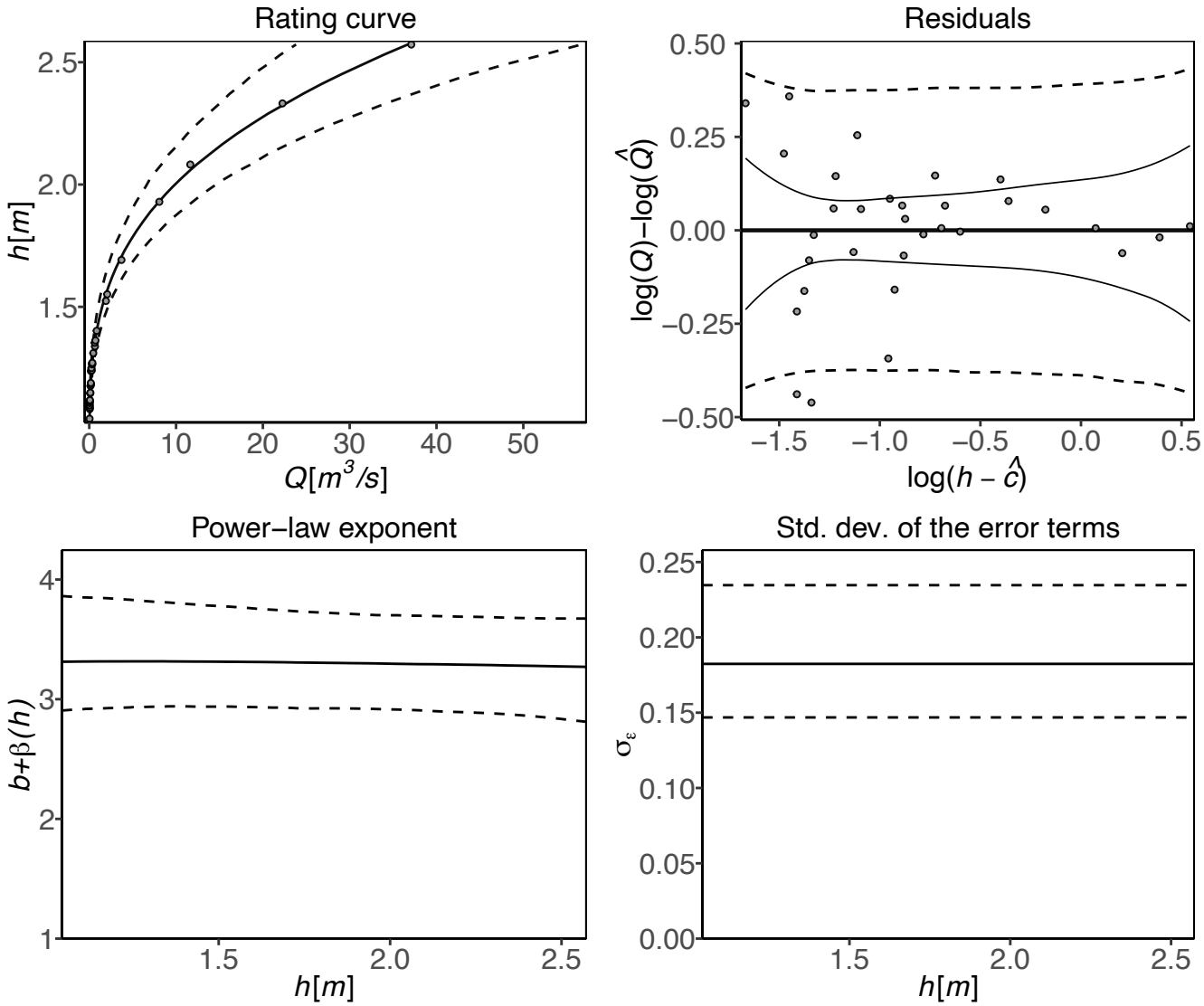


Susan, Usa – GPLM



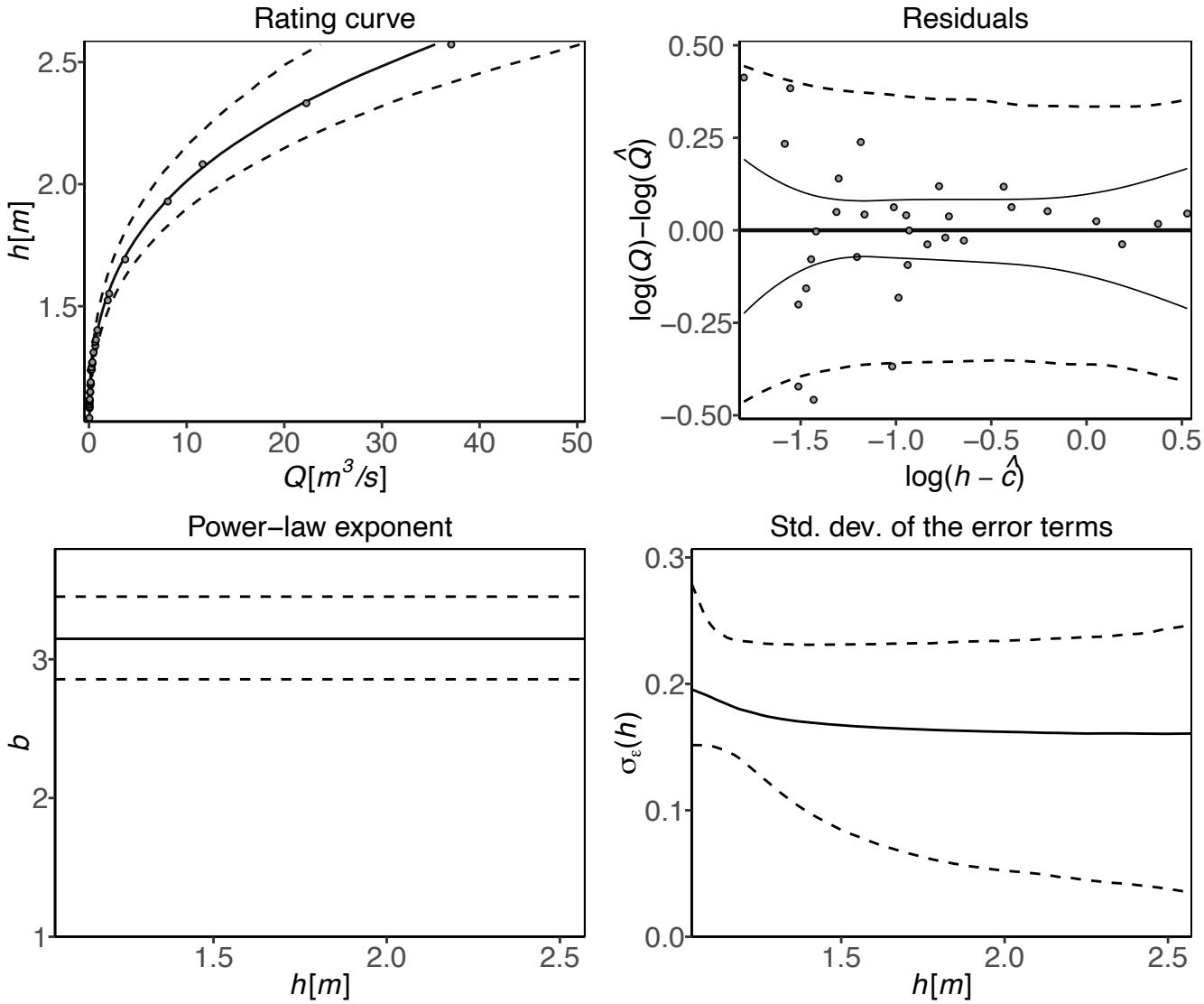
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.38	[4.87; 7.65]	1988	1.00
b	1.84	[1.83; 1.84]	9984	1.00
c	0.86	[0.78; 0.91]	1609	1.00
σ_β	0.75	[0.44; 1.39]	2309	1.00
ϕ_β	22.28	[1.39; 12311.97]	1266	1.00
σ_η	0.15	[0.00; 0.80]	871	1.02
η_1	–3.32	[–3.82; –2.64]	3129	1.00
η_2	–3.79	[–5.64; –1.77]	1401	1.01
η_3	–4.39	[–7.05; –1.15]	1796	1.00
η_4	–4.64	[–8.08; –0.79]	2188	1.00
η_5	–4.78	[–8.69; –0.35]	2350	1.00
η_6	–4.83	[–9.26; 0.11]	2325	1.00

Susan, Usa – GPLM0



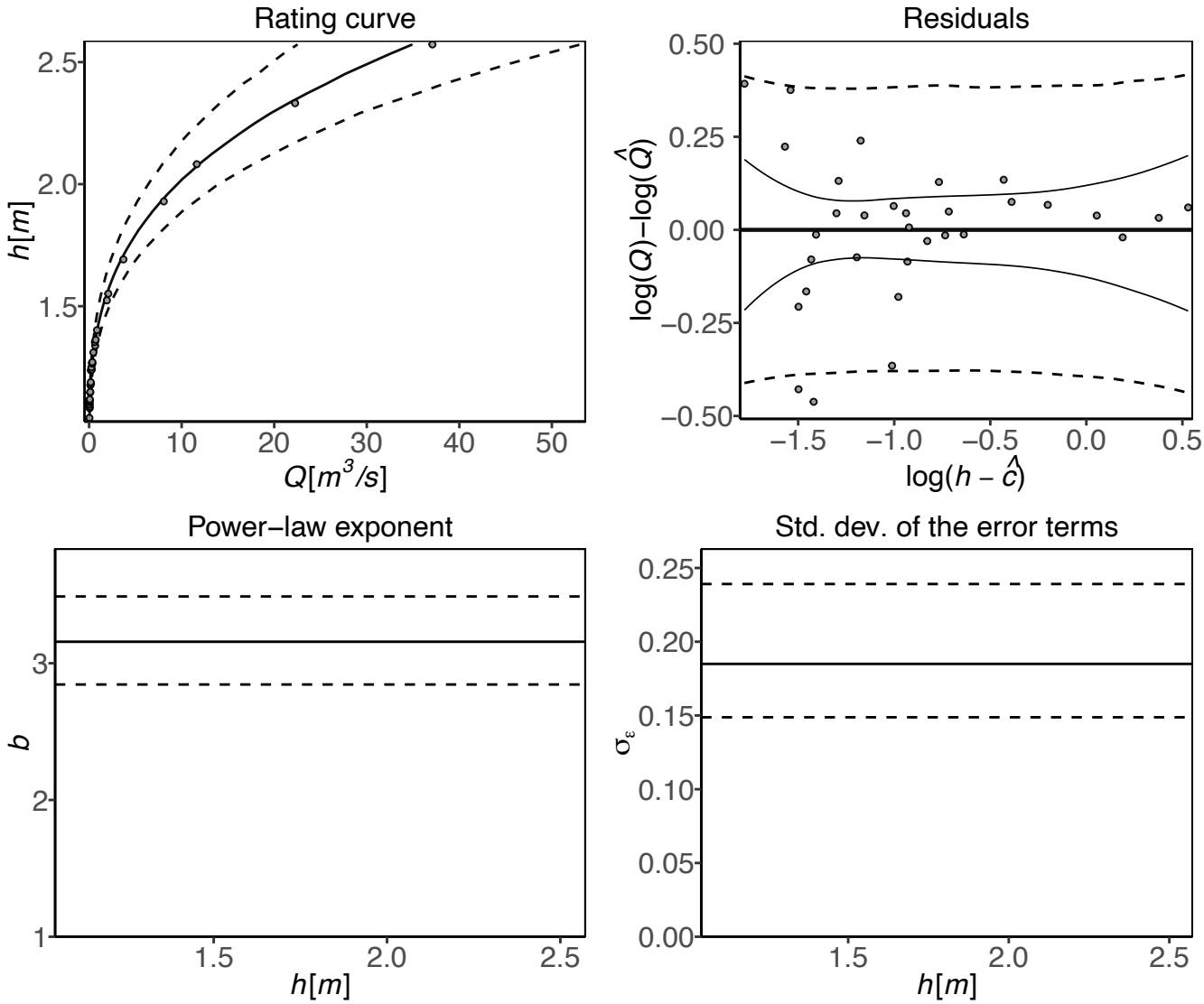
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.27	[4.88; 7.66]	5053	1.00
b	1.84	[1.83; 1.84]	12724	1.00
c	0.85	[0.78; 0.91]	3829	1.00
σ_ε	0.18	[0.15; 0.23]	5337	1.00
σ_β	0.87	[0.66; 1.18]	5578	1.00
ϕ_β	27.02	[1.42; 23883.19]	2283	1.00

Susan, Usa – PLM



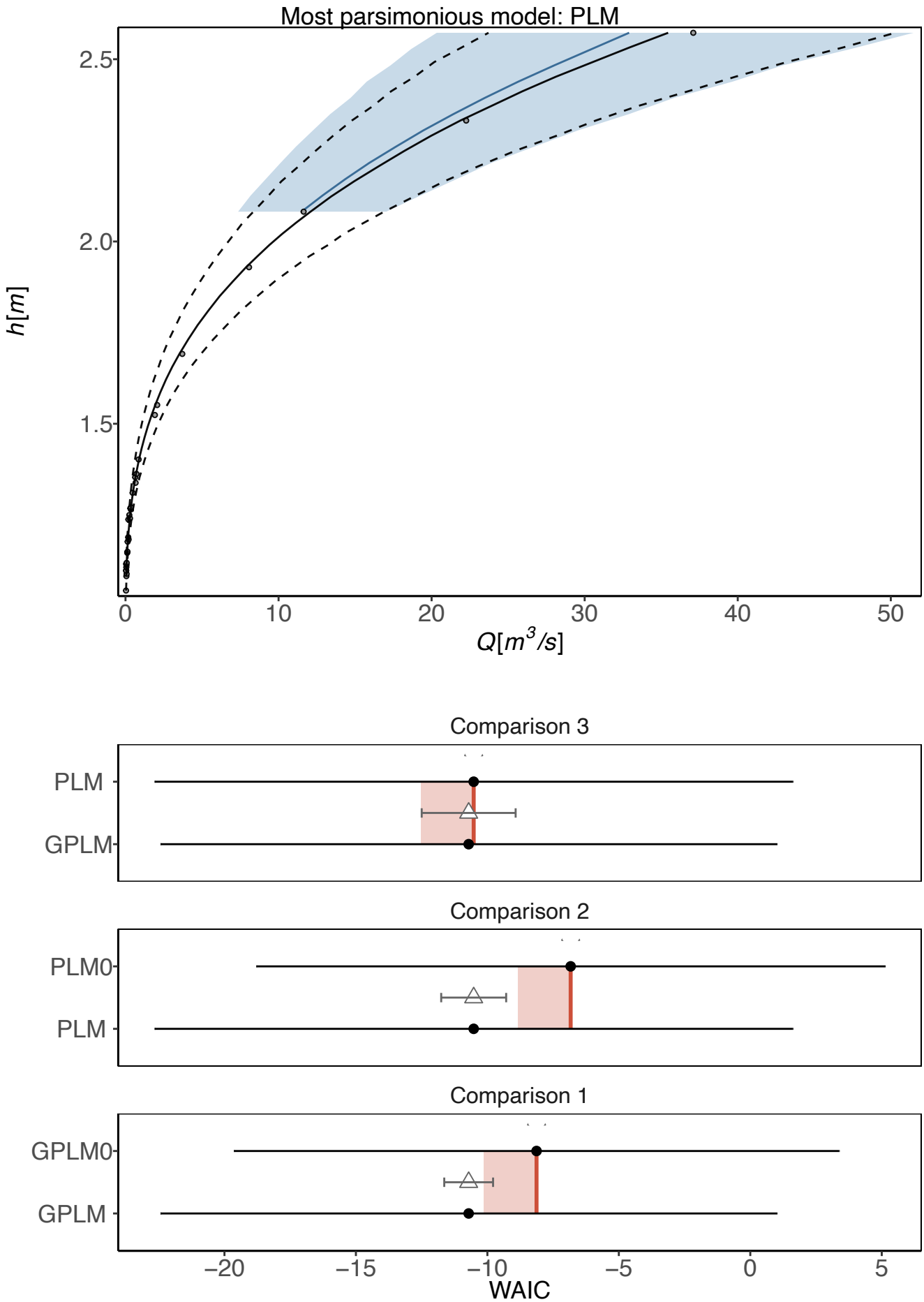
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.67	[5.55; 7.76]	3242	1.00
b	3.15	[2.86; 3.45]	2479	1.00
c	0.88	[0.83; 0.91]	2286	1.00
σ_η	0.18	[0.01; 0.86]	888	1.01
η_1	–3.26	[–3.77; –2.55]	2850	1.00
η_2	–3.88	[–5.62; –1.98]	1542	1.01
η_3	–4.59	[–7.15; –1.55]	1975	1.00
η_4	–4.92	[–8.22; –1.09]	2556	1.00
η_5	–5.07	[–8.92; –0.58]	2883	1.00
η_6	–5.19	[–9.51; –0.22]	2913	1.00

Susan, Usa – PLM0



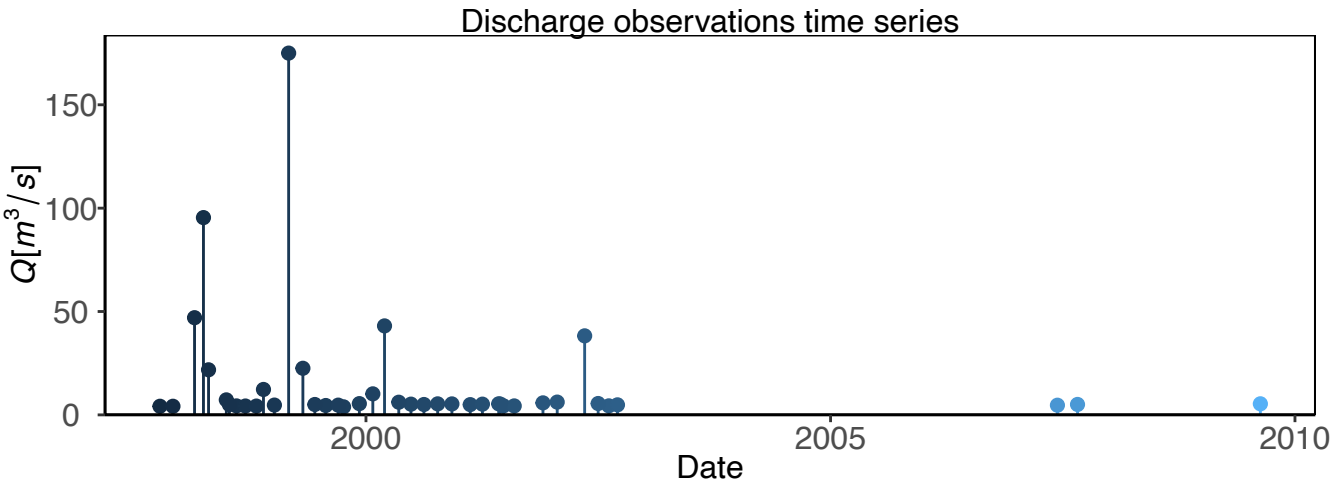
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.53	[5.41; 7.70]	11671	1.00
b	3.16	[2.84; 3.49]	9969	1.00
c	0.87	[0.83; 0.91]	9410	1.00
σ_ε	0.18	[0.15; 0.24]	9755	1.00

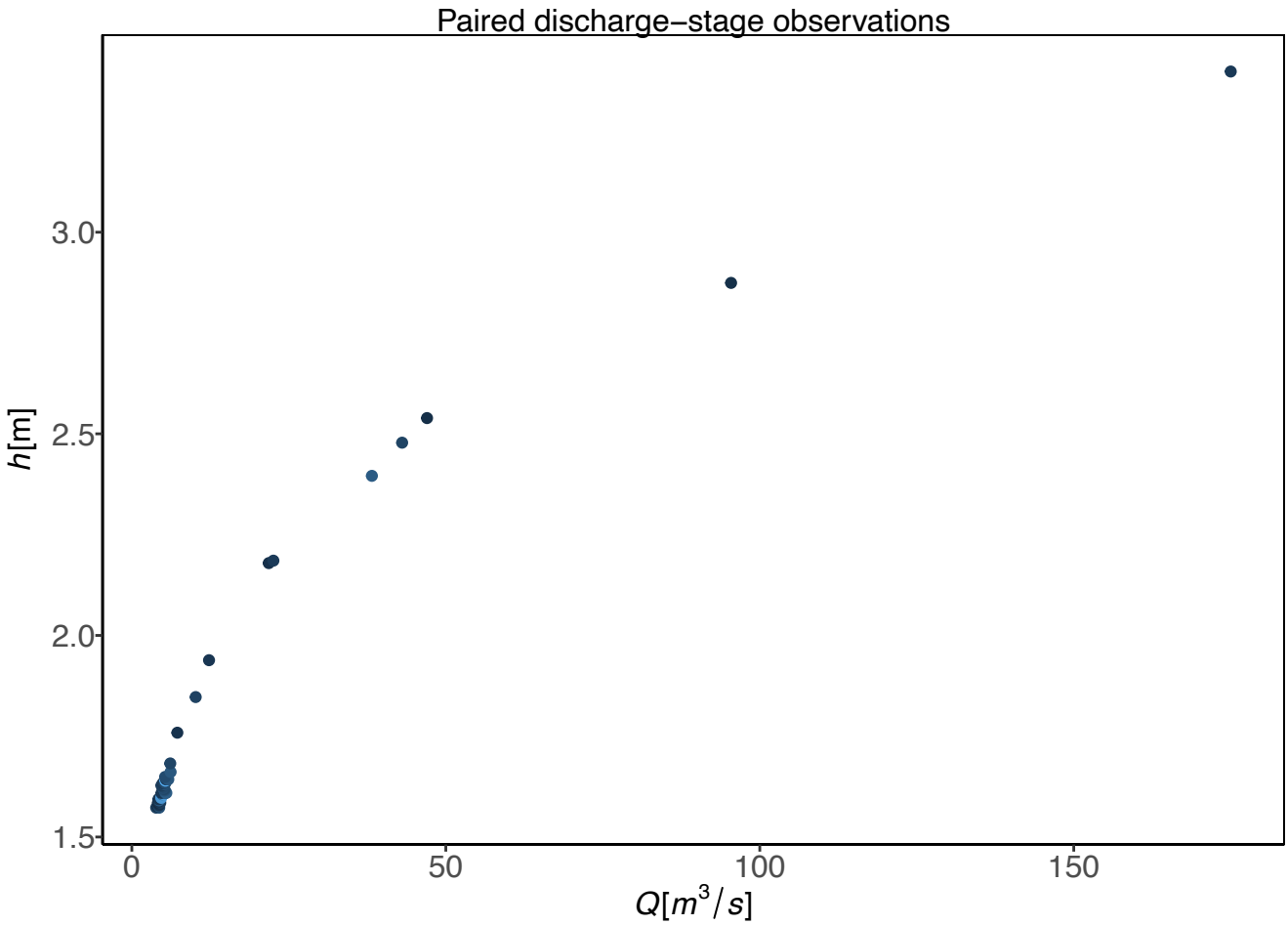
Power−law tournament results for Susan, Usa



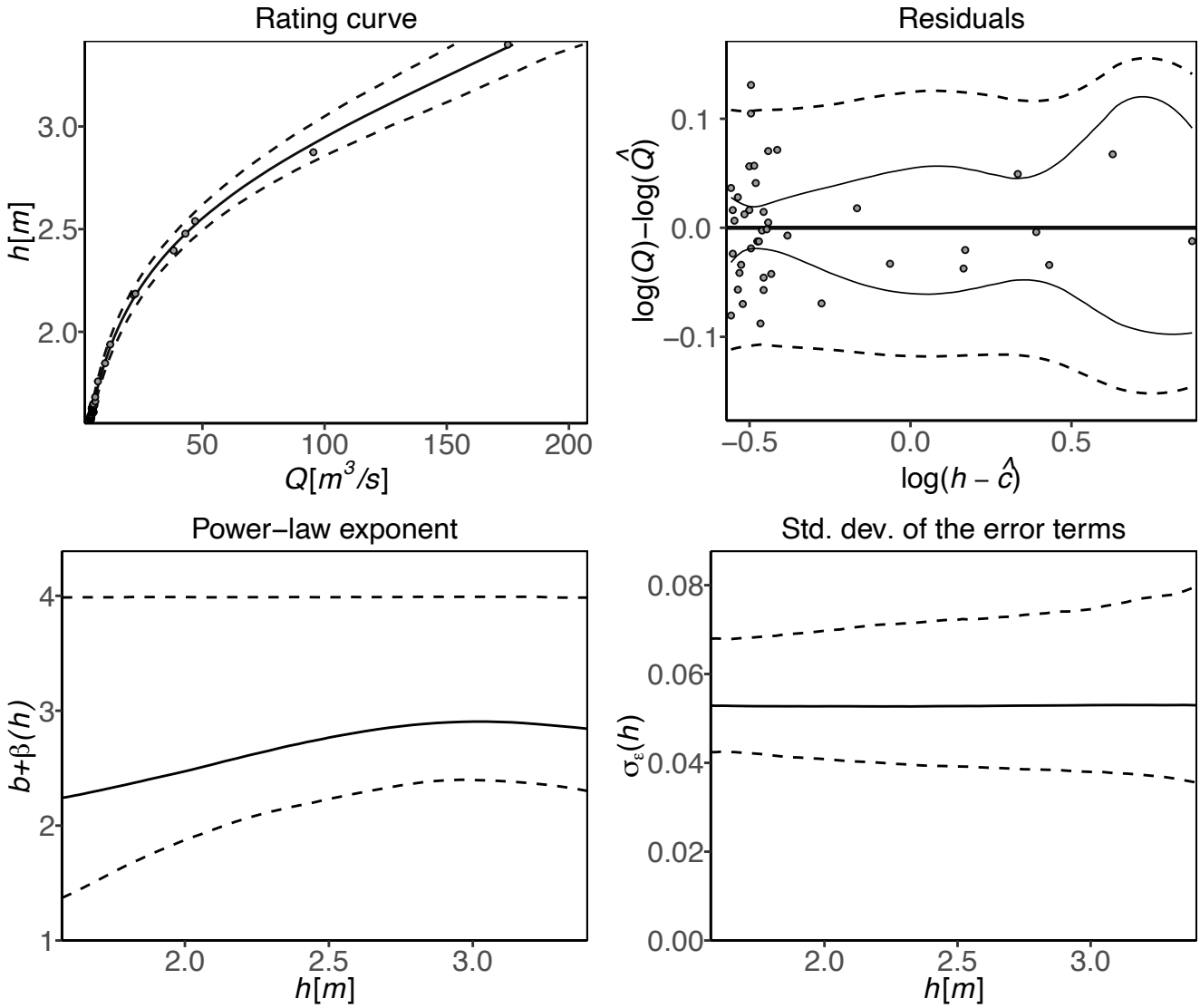
Station name:	Pit Big Bend
Location:	California, USA
Station number:	11363000
Number of observations:	41
Start date:	1997–10–13
End date:	2009–08–18
Max. discharge (m^3/s):	175
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.30	0.44
GPLM0	0.00	0.52
PLM	6.64	0.02
PLM0	6.37	0.02



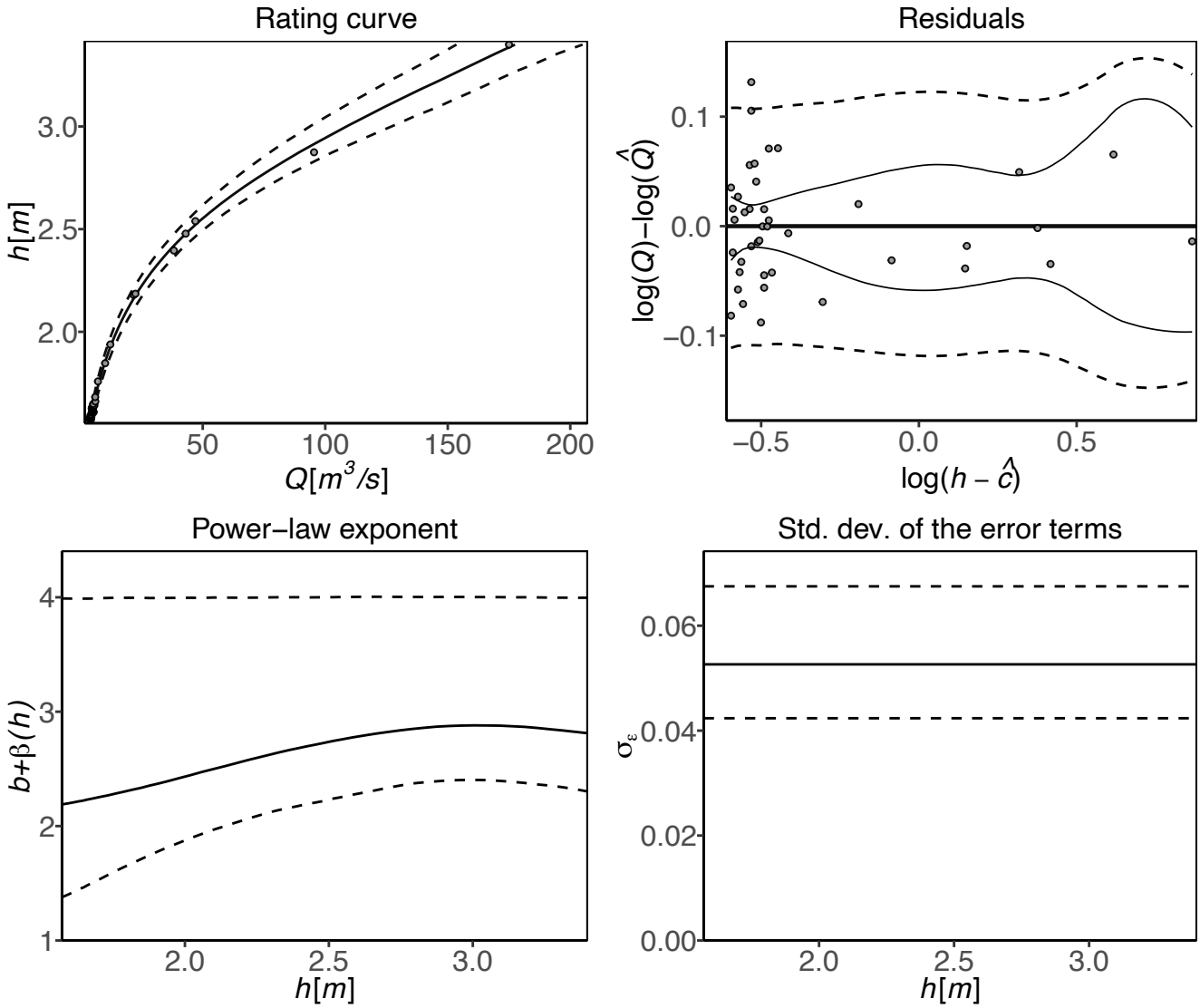


Pit Big Bend, Usa – GPLM



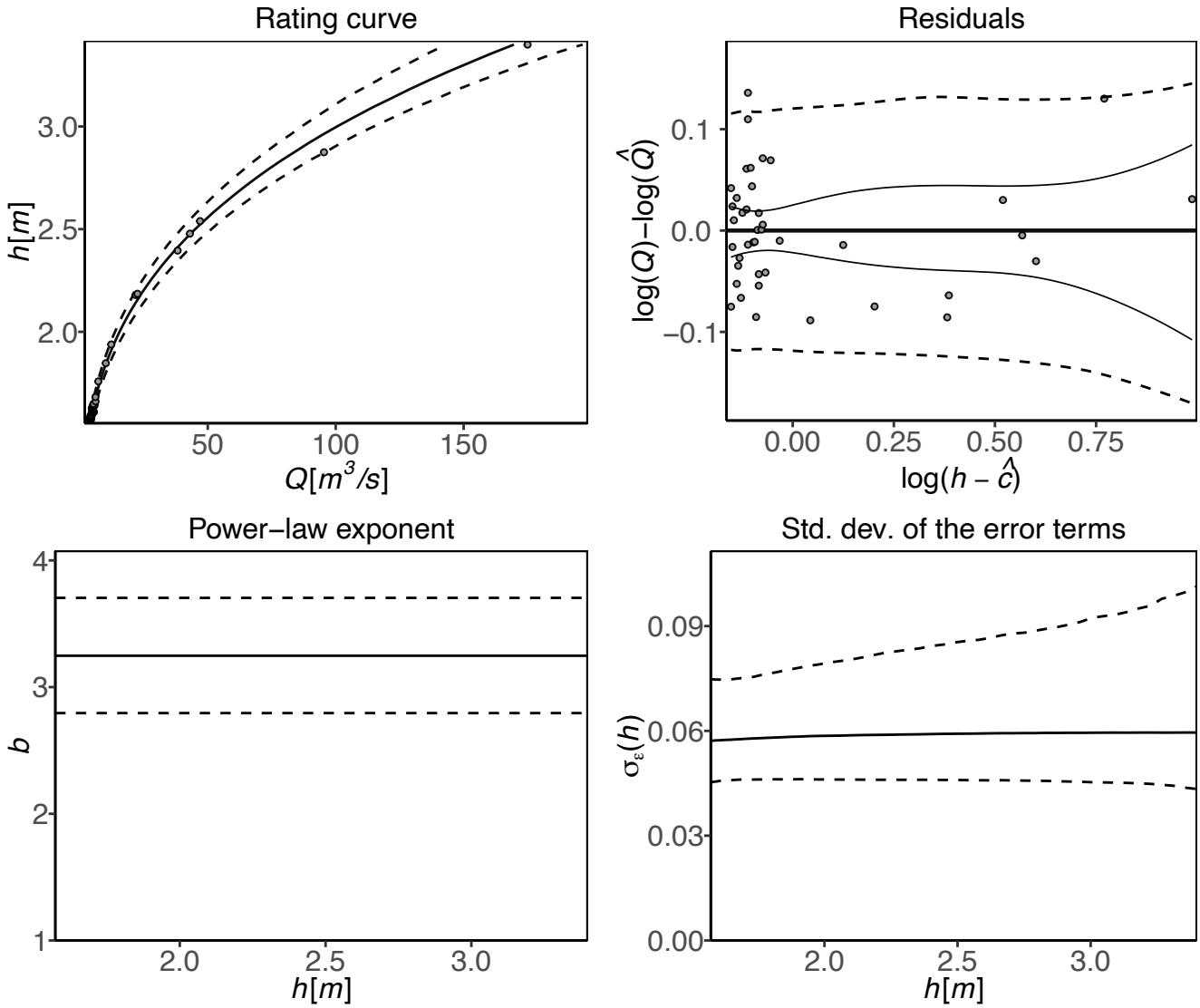
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	14.80	[2.39; 33.21]	988	1.18
b	1.84	[1.83; 1.84]	8373	1.00
c	1.00	[0.41; 1.35]	1055	1.12
σ_β	0.61	[0.31; 1.28]	1521	1.07
ϕ_β	1.98	[0.63; 1651.03]	740	1.38
σ_η	0.08	[0.00; 0.42]	1533	1.00
η_1	–5.88	[–6.32; –5.38]	2120	1.01
η_2	–5.87	[–7.85; –3.97]	2233	1.00
η_3	–5.90	[–8.64; –3.16]	2229	1.00
η_4	–5.87	[–9.18; –2.45]	2336	1.00
η_5	–5.83	[–9.62; –1.99]	2299	1.00
η_6	–5.84	[–10.14; –1.45]	2177	1.00

Pit Big Bend, Usa – GPLM0



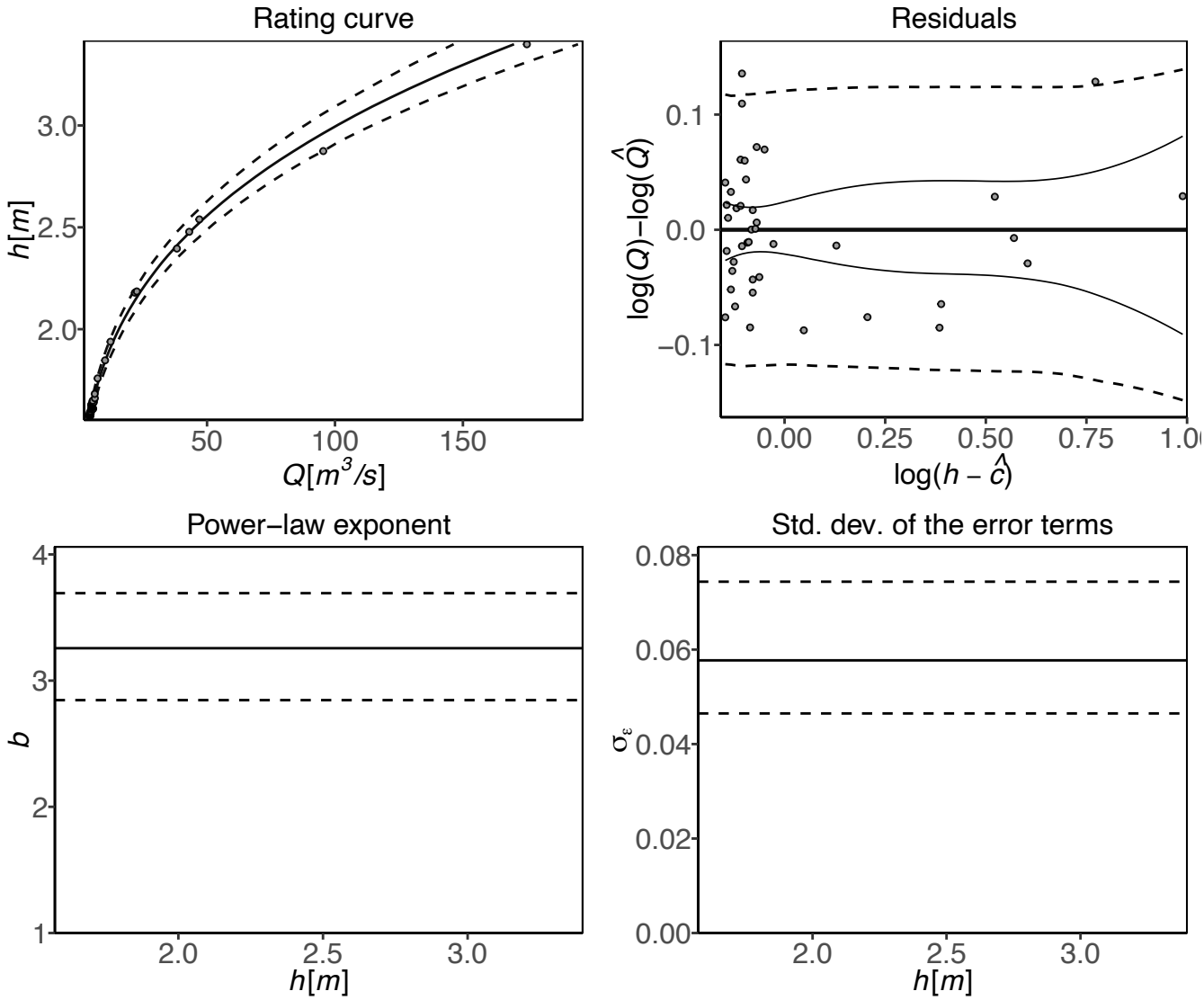
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	15.58	[2.35; 32.99]	1235	1.04
b	1.84	[1.83; 1.84]	10957	1.00
c	1.02	[0.41; 1.35]	1472	1.02
σ_ε	0.05	[0.04; 0.07]	4032	1.00
σ_β	0.78	[0.55; 1.13]	2375	1.01
ϕ_β	1.87	[0.62; 2781.13]	778	1.11

Pit Big Bend, Usa – PLM



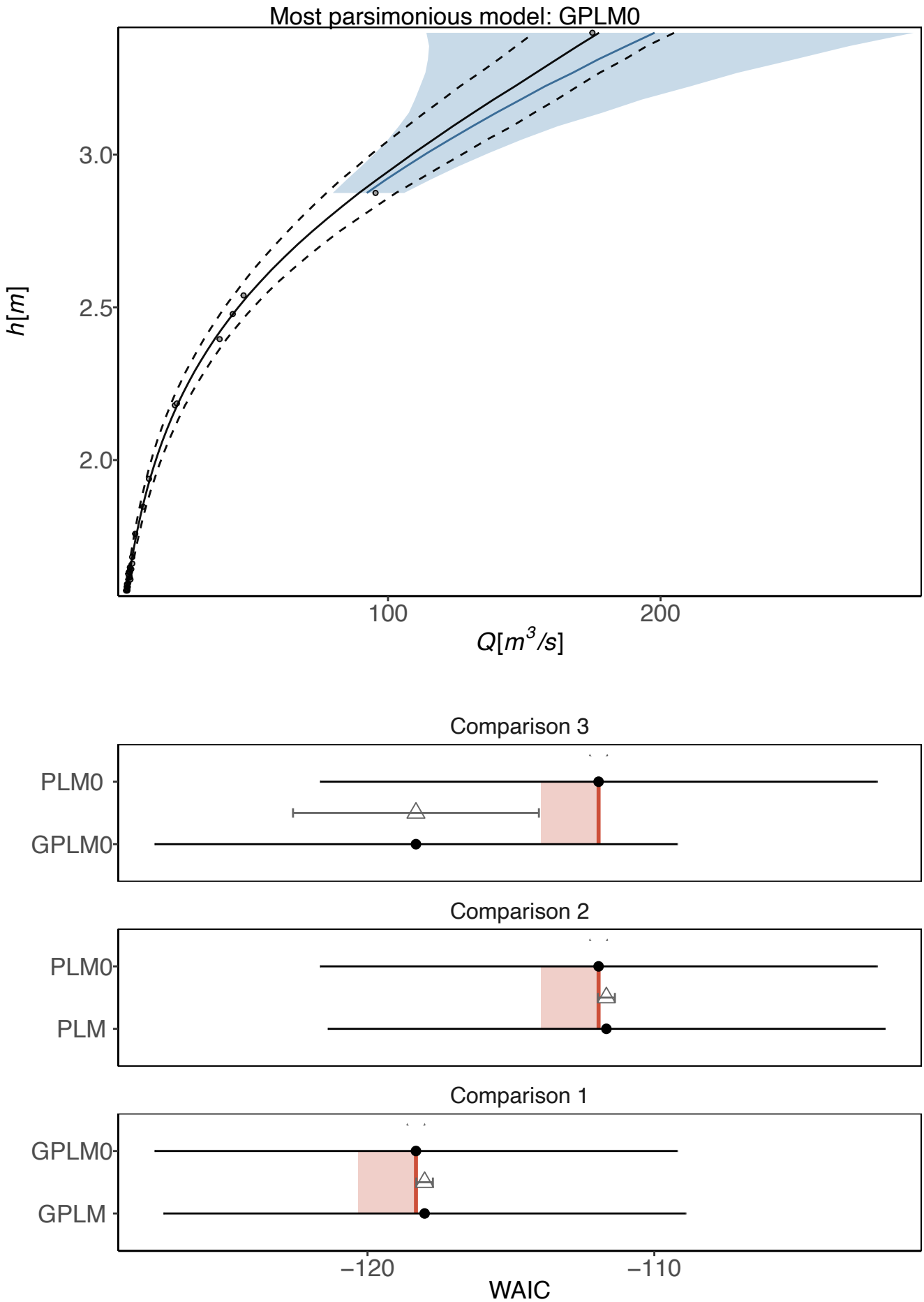
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.87	[3.65; 11.89]	2616	1.00
b	3.25	[2.79; 3.70]	2630	1.00
c	0.71	[0.53; 0.89]	2550	1.00
σ_η	0.09	[0.00; 0.44]	2024	1.00
η_1	–5.72	[–6.19; –5.19]	2600	1.00
η_2	–5.50	[–7.46; –3.62]	2913	1.00
η_3	–5.32	[–7.99; –2.67]	2984	1.00
η_4	–5.19	[–8.55; –1.99]	2793	1.00
η_5	–5.12	[–8.98; –1.41]	2916	1.00
η_6	–5.10	[–9.44; –0.77]	2725	1.00

Pit Big Bend, Usa – PLM0



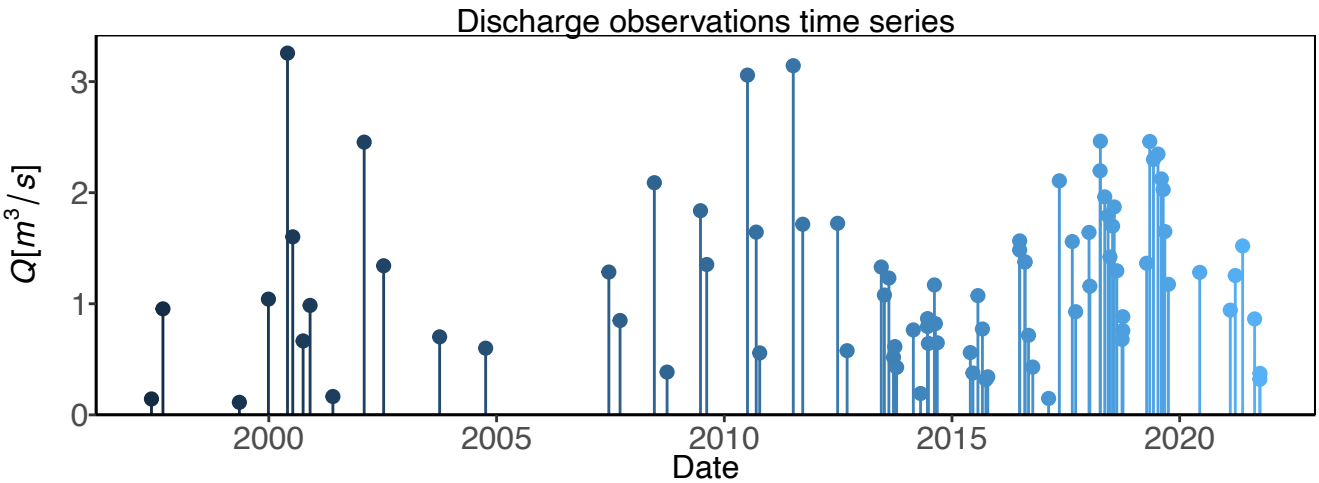
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.77	[3.68; 11.48]	9605	1.00
b	3.26	[2.85; 3.69]	9749	1.00
c	0.71	[0.53; 0.87]	9514	1.00
σ_ε	0.06	[0.05; 0.07]	9820	1.00

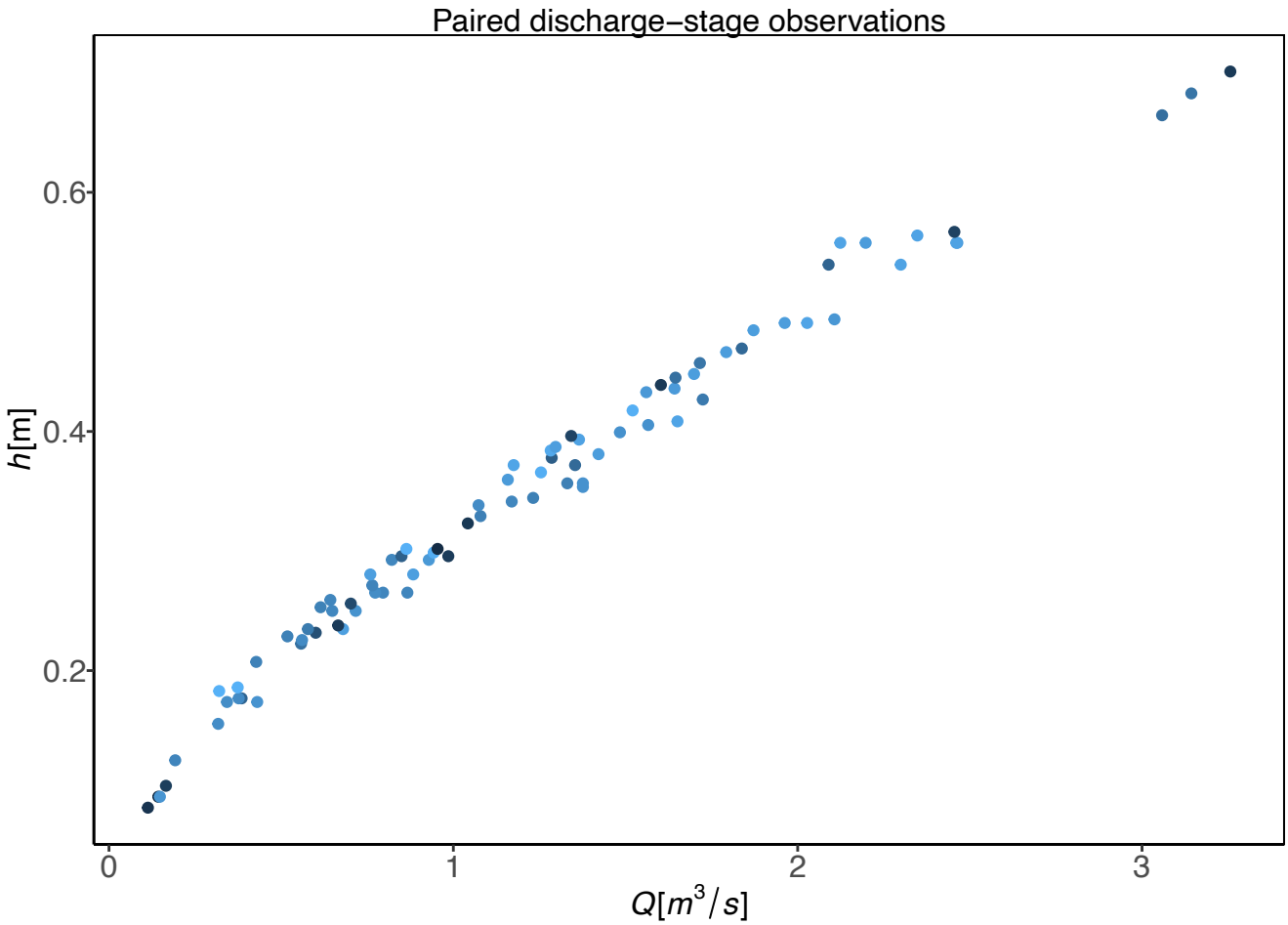
Power−law tournament results for Pit Big Bend, Usa



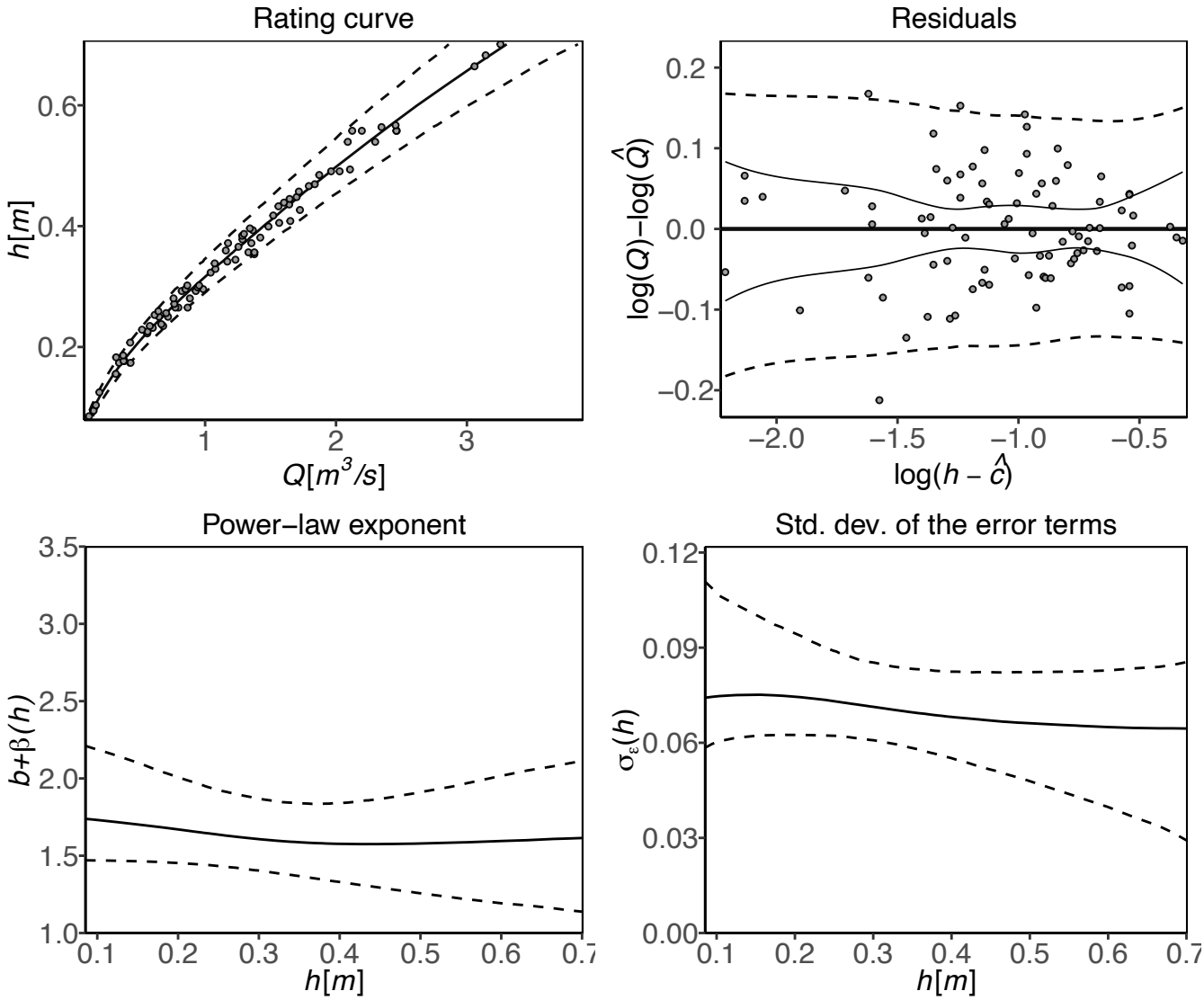
Station name:	Toadtown
Location:	California, USA
Station number:	11389800
Number of observations:	84
Start date:	1997–06–04
End date:	2021–10–06
Max. discharge (m^3/s):	3.3
Tournament winner:	GPLM

	dWAIC	Akaike weights
GPLM	0.00	0.74
GPLM0	2.39	0.22
PLM	6.58	0.03
PLM0	9.43	0.01



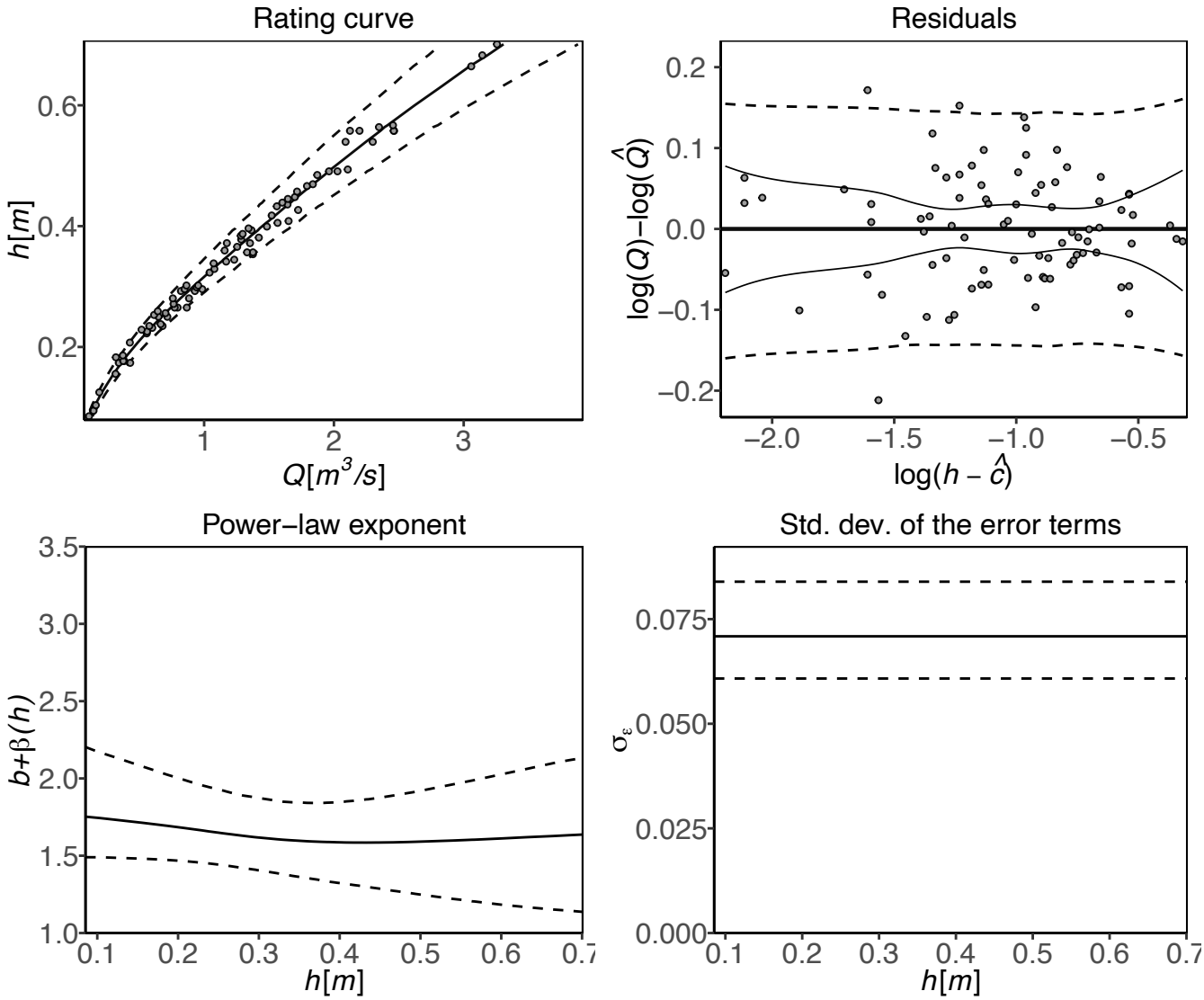


Toadtown, Usa – GPLM



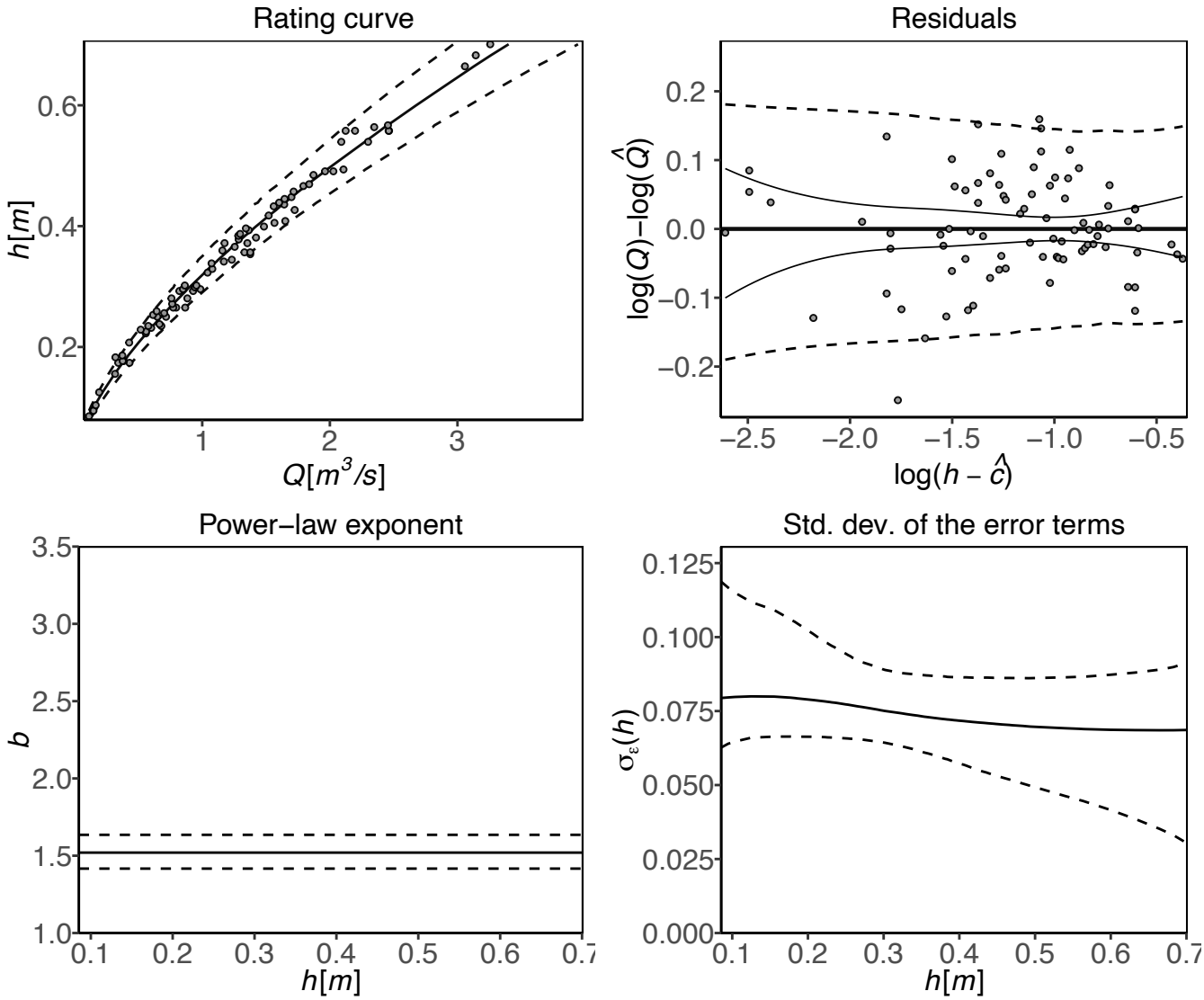
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.62	[4.31; 6.59]	2282	1.02
b	1.83	[1.83; 1.84]	8443	1.00
c	–0.02	[–0.11; 0.02]	1144	1.05
σ_β	0.27	[0.09; 0.79]	2268	1.00
ϕ_β	0.64	[0.23; 335.48]	755	1.13
σ_η	0.16	[0.01; 0.65]	901	1.01
η_1	–5.20	[–5.68; –4.40]	1857	1.01
η_2	–5.03	[–6.83; –3.48]	1574	1.00
η_3	–5.60	[–7.97; –3.34]	1435	1.00
η_4	–6.43	[–9.38; –3.11]	1435	1.00
η_5	–6.74	[–10.10; –2.91]	1991	1.00
η_6	–6.96	[–10.79; –2.55]	2117	1.00

Toadtown, Usa – GPLM0



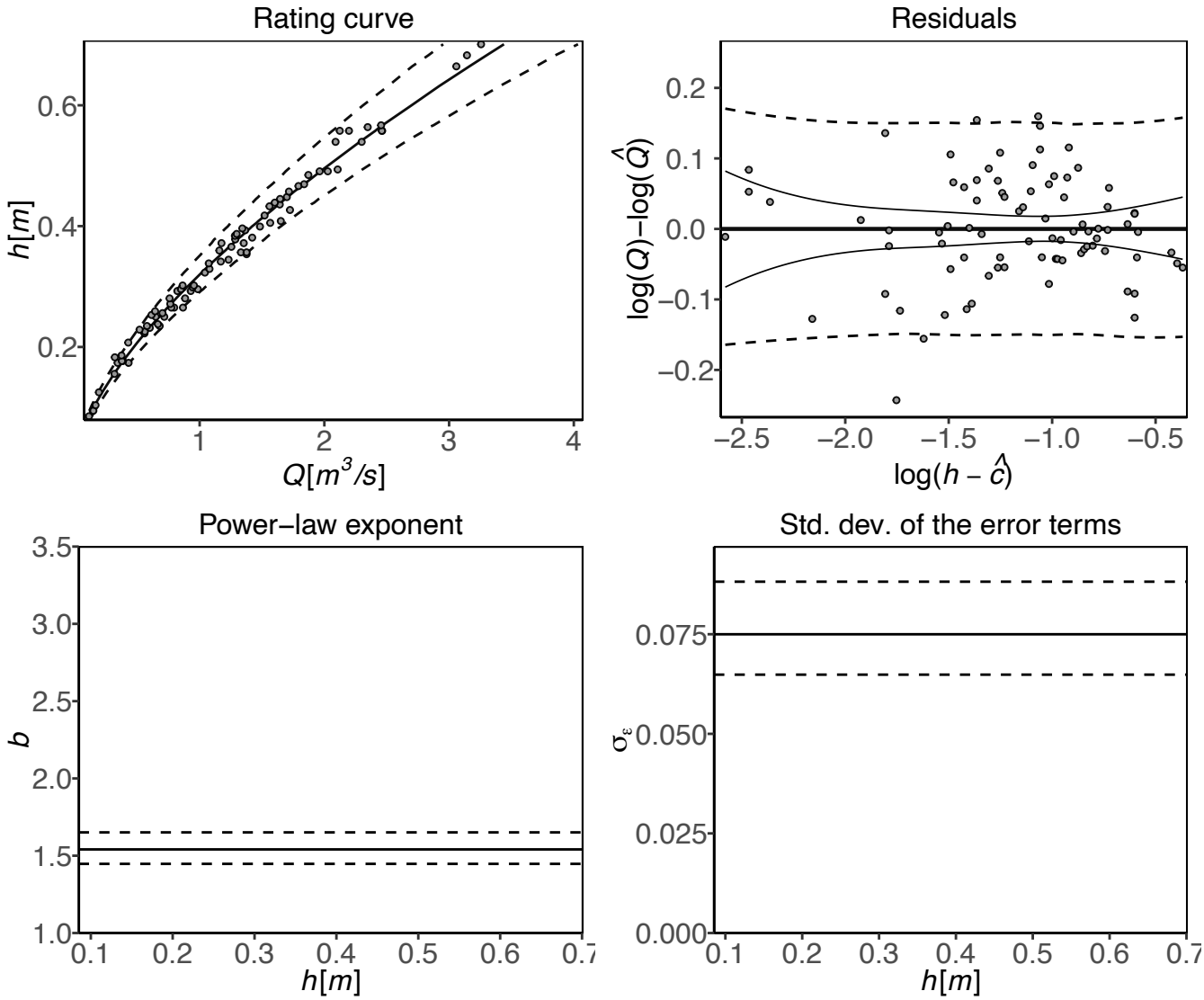
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	5.60	[4.29; 6.69]	4090	1.00
b	1.83	[1.83; 1.84]	11544	1.00
c	–0.03	[–0.10; 0.01]	1908	1.02
σ_ε	0.07	[0.06; 0.08]	3371	1.00
σ_β	0.52	[0.30; 0.90]	5274	1.00
ϕ_β	0.61	[0.23; 135.69]	817	1.10

Toadtown, Usa – PLM



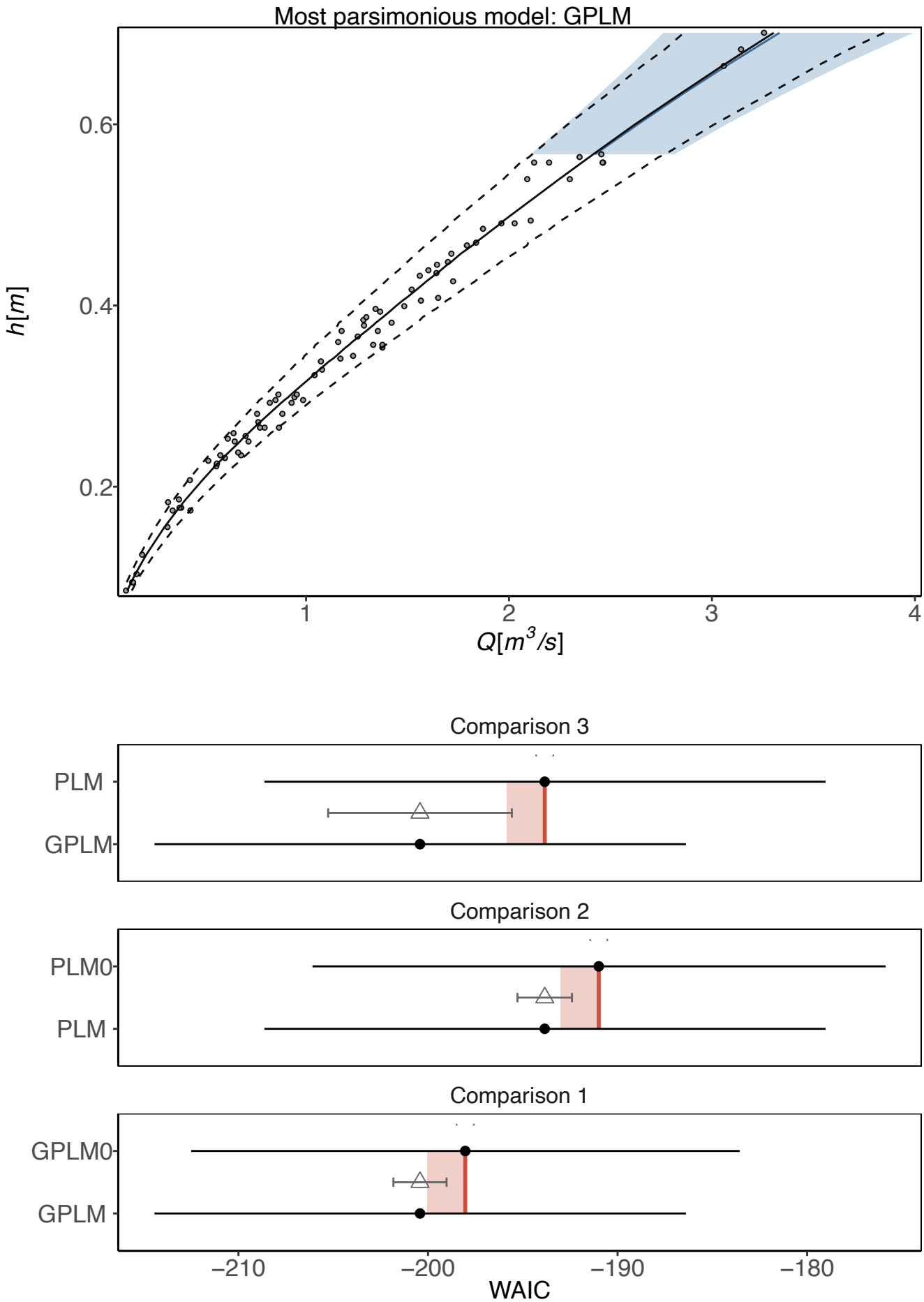
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.00	[5.69; 6.37]	3189	1.00
b	1.52	[1.42; 1.64]	2239	1.00
c	0.01	[0.00; 0.03]	2161	1.00
σ_η	0.17	[0.00; 0.69]	867	1.02
η_1	–5.07	[–5.54; –4.26]	2020	1.00
η_2	–4.92	[–6.81; –3.29]	1696	1.01
η_3	–5.56	[–7.97; –3.14]	1459	1.01
η_4	–6.35	[–9.22; –2.97]	1570	1.01
η_5	–6.62	[–9.94; –2.49]	2186	1.00
η_6	–6.76	[–10.60; –2.02]	2465	1.00

Toadtown, Usa – PLM0



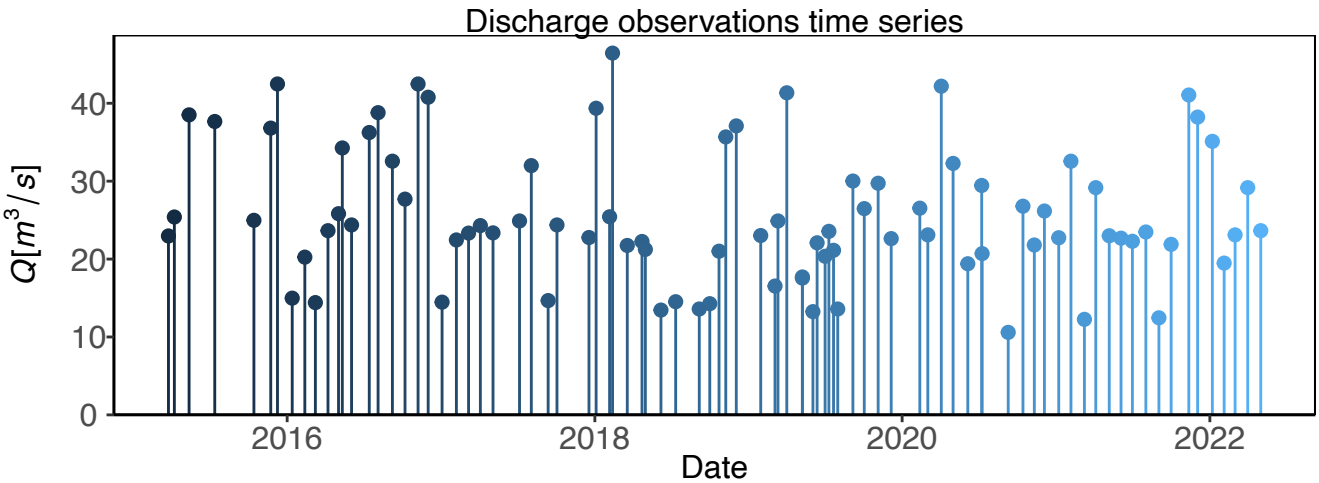
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.07	[5.74; 6.42]	11444	1.00
b	1.54	[1.45; 1.65]	9208	1.00
c	0.01	[–0.01; 0.02]	8963	1.00
σ_ε	0.07	[0.06; 0.09]	9946	1.00

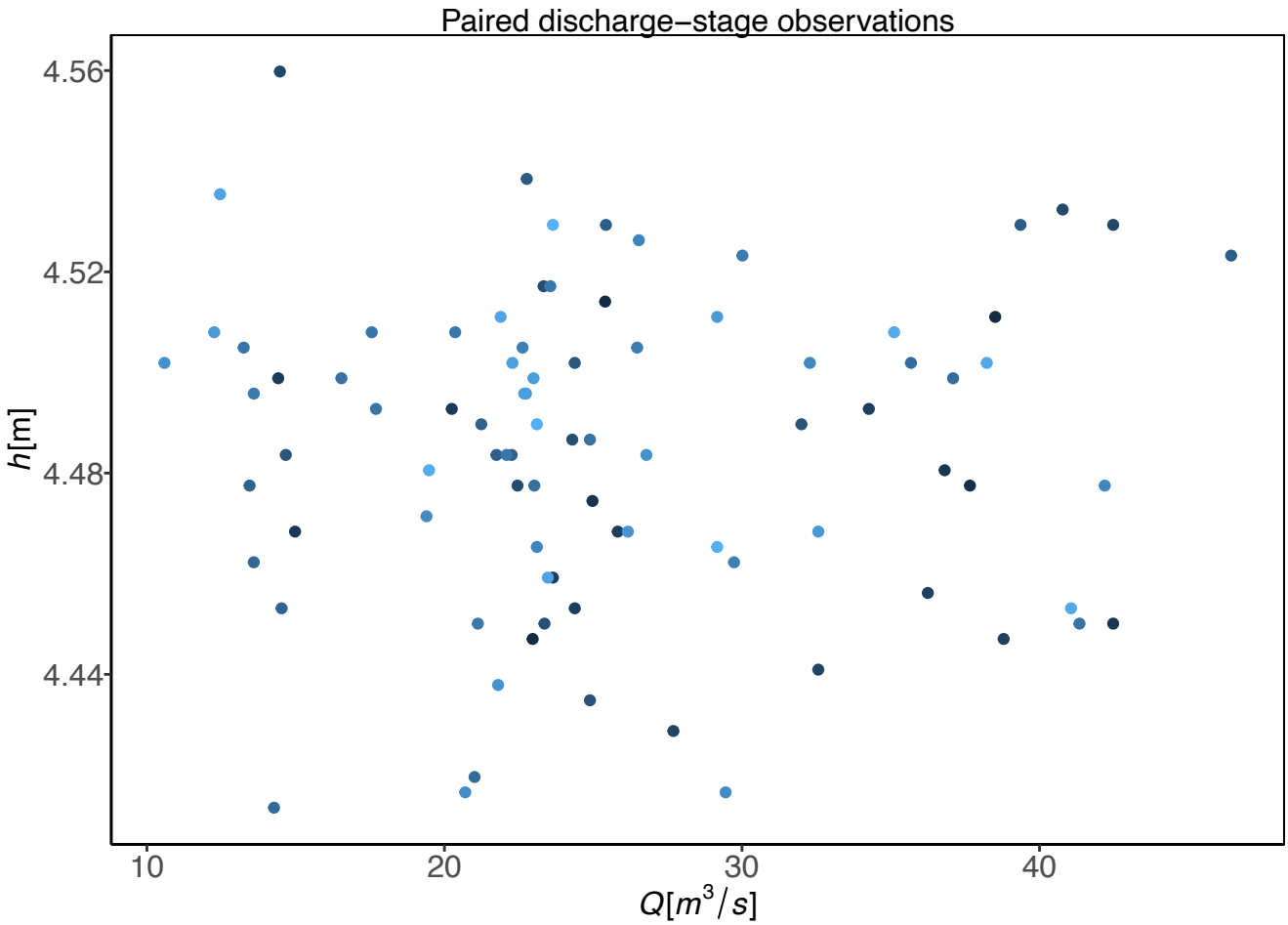
Power−law tournament results for Toadtown, Usa



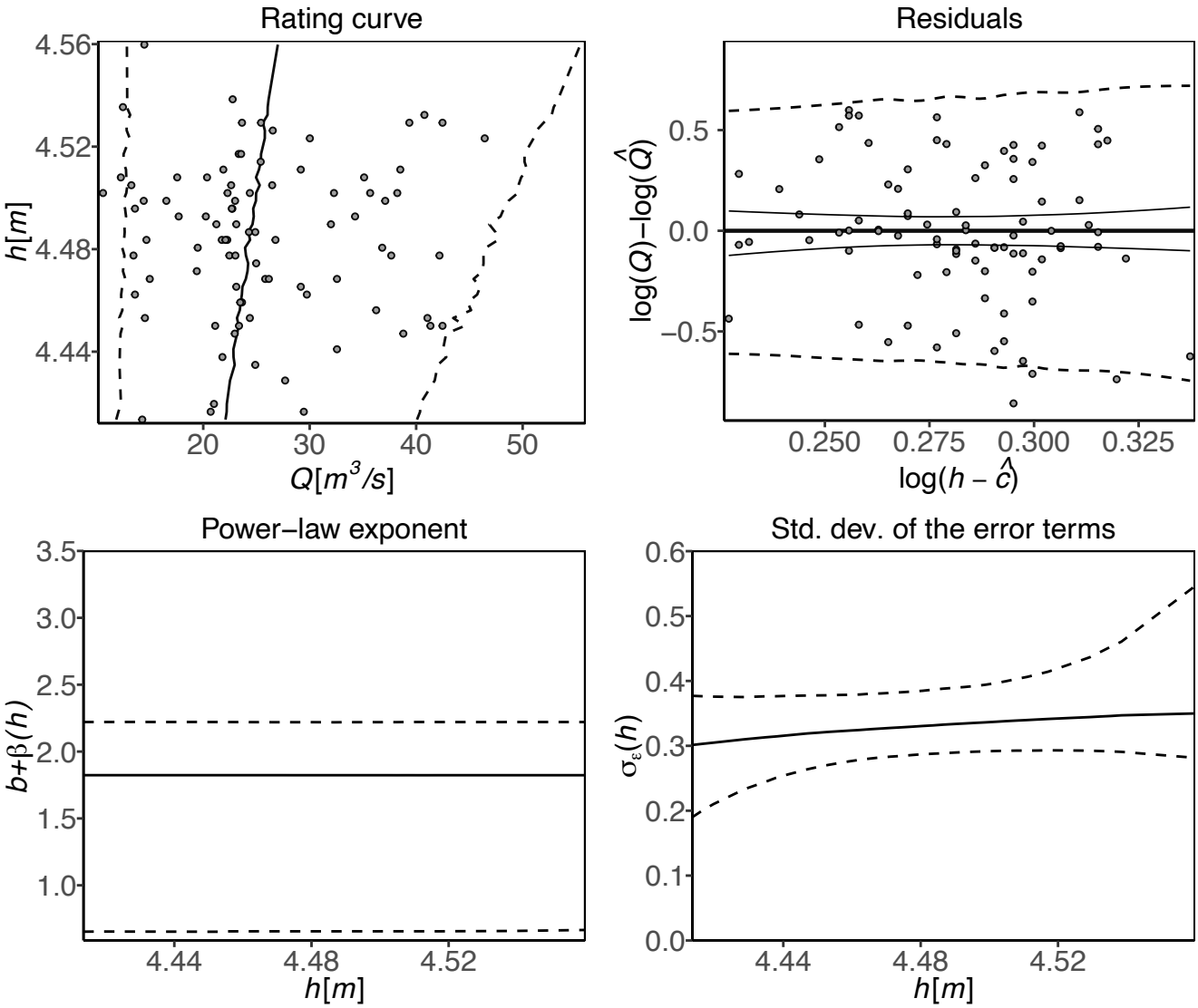
Station name:	Yuma
Location:	California, USA
Station number:	09524700
Number of observations:	87
Start date:	2015–03–25
End date:	2022–05–02
Max. discharge (m^3/s):	46.4
Tournament winner:	PLM0

	dWAIC	Akaike weights
GPLM	0.12	0.24
GPLM0	0.12	0.25
PLM	0.10	0.25
PLM0	0.00	0.26



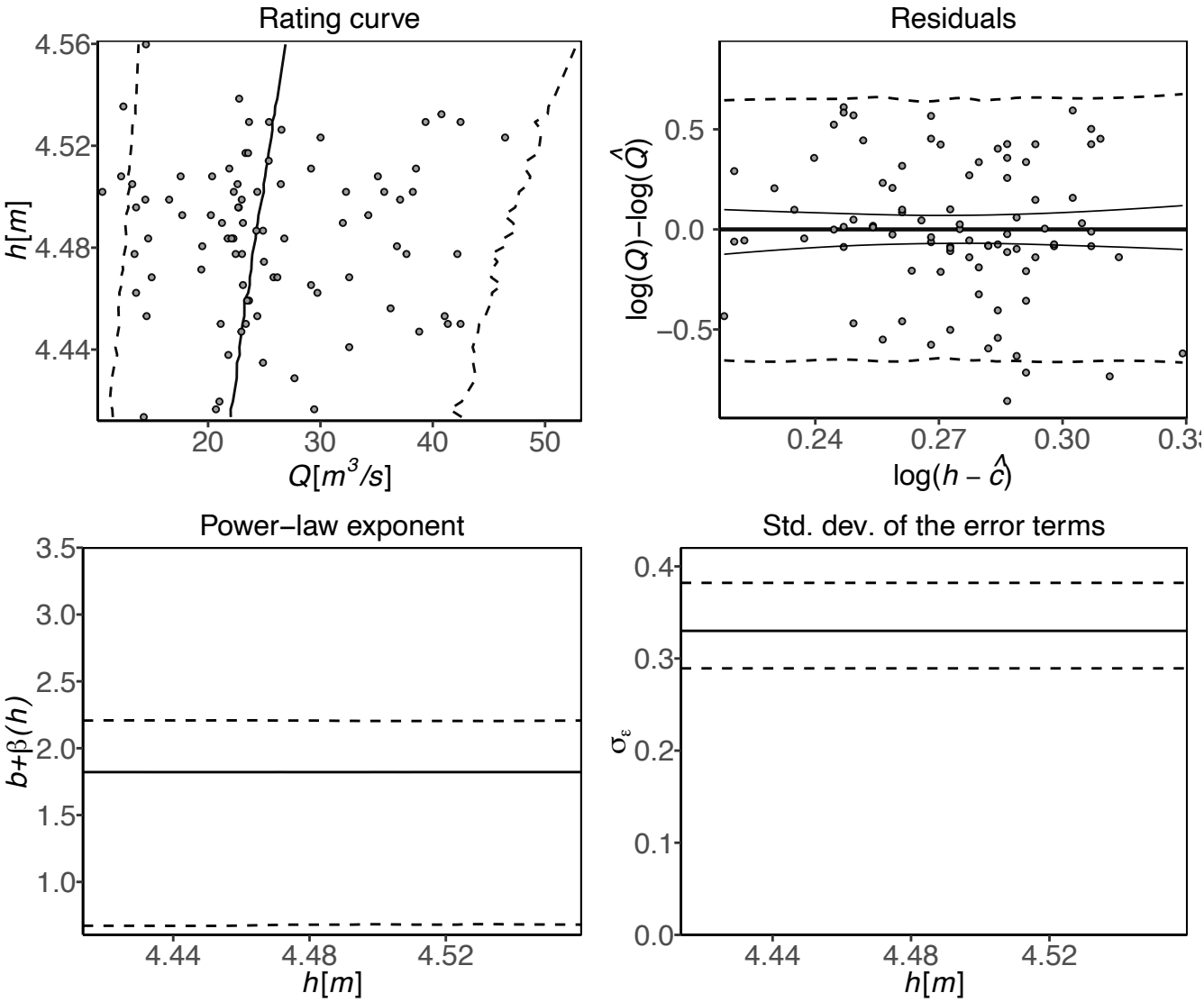


Yuma, Usa – GPLM



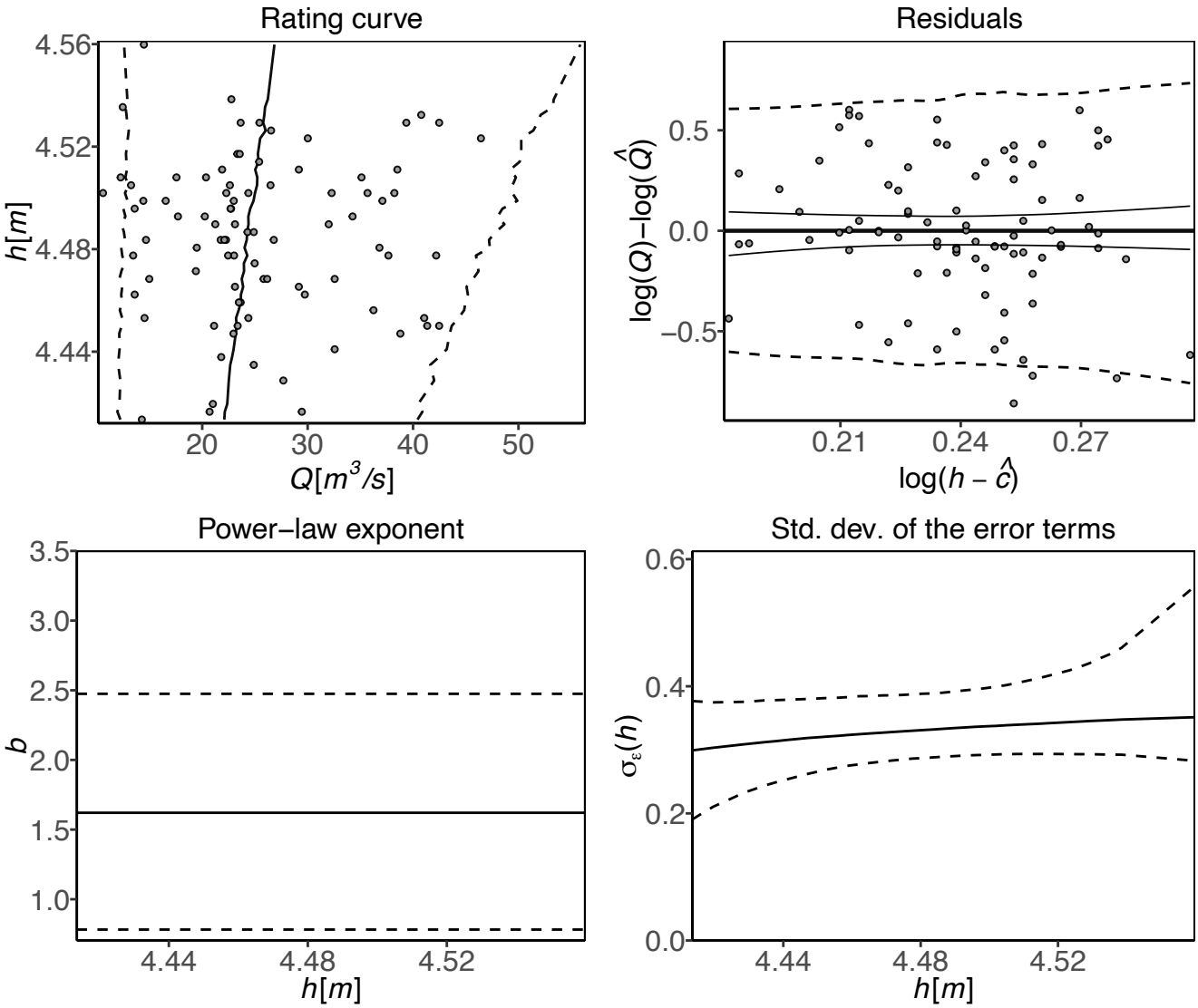
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	14.95	[3.30; 50.93]	2211	1.00
b	1.83	[1.83; 1.84]	8607	1.00
c	3.16	[1.60; 3.92]	1517	1.01
σ_β	0.13	[0.00; 0.80]	1302	1.01
ϕ_β	17.25	[0.55; 10428.61]	1440	1.01
σ_η	0.14	[0.01; 0.52]	861	1.04
η_1	–2.40	[–3.32; –1.95]	1461	1.01
η_2	–1.91	[–3.61; –0.17]	1469	1.01
η_3	–1.40	[–3.84; 0.79]	1656	1.00
η_4	–0.95	[–4.15; 1.68]	1624	1.01
η_5	–0.56	[–4.29; 2.53]	1814	1.00
η_6	–0.41	[–4.63; 3.13]	2012	1.00

Yuma, Usa – GPLM0



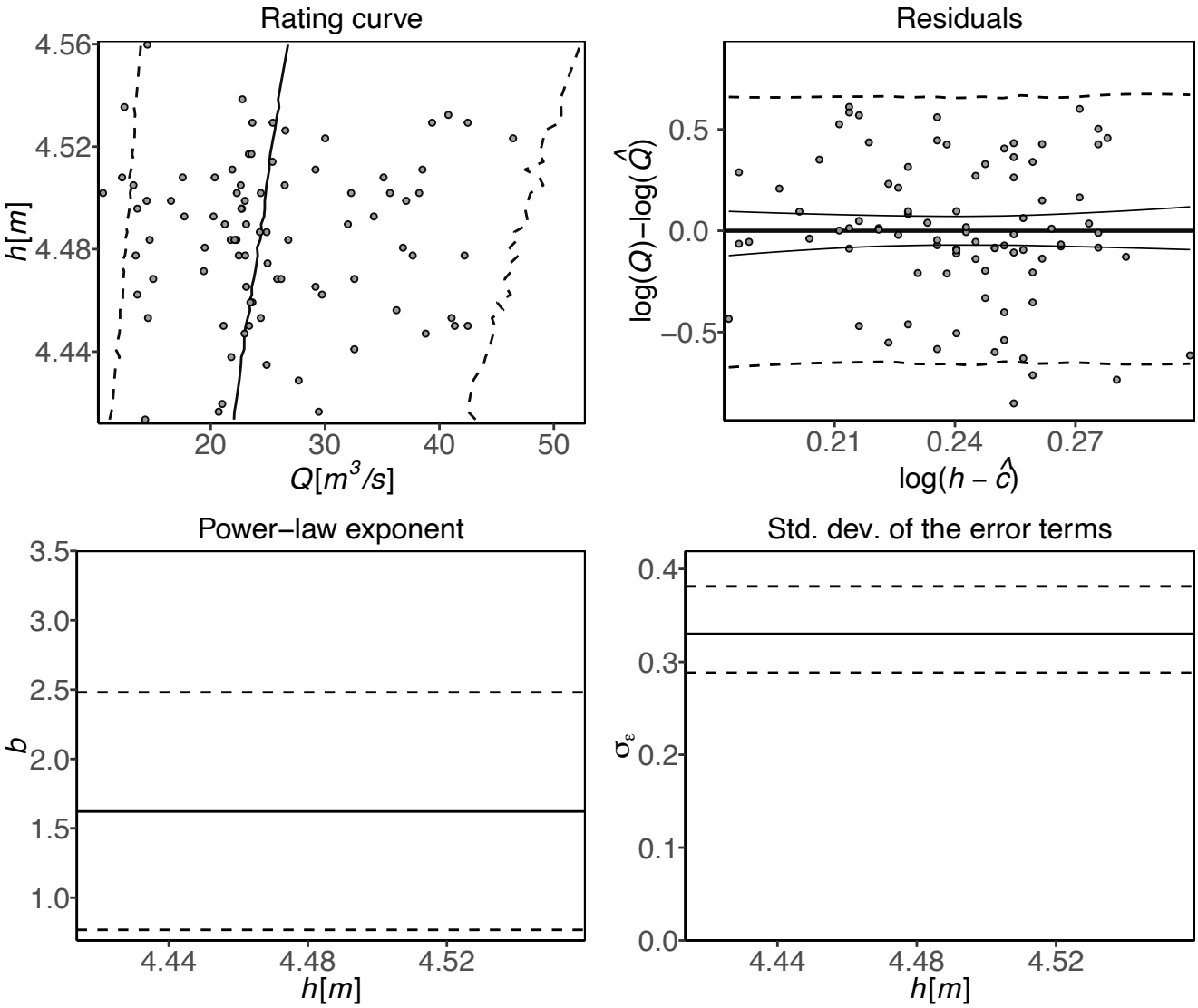
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	15.00	[3.32; 51.21]	5624	1.00
b	1.83	[1.83; 1.84]	12111	1.00
c	3.17	[1.56; 3.91]	3615	1.00
σ_ε	0.33	[0.29; 0.38]	5629	1.00
σ_β	0.37	[0.07; 0.90]	3168	1.00
ϕ_β	16.31	[0.58; 9095.23]	3126	1.00

Yuma, Usa – PLM



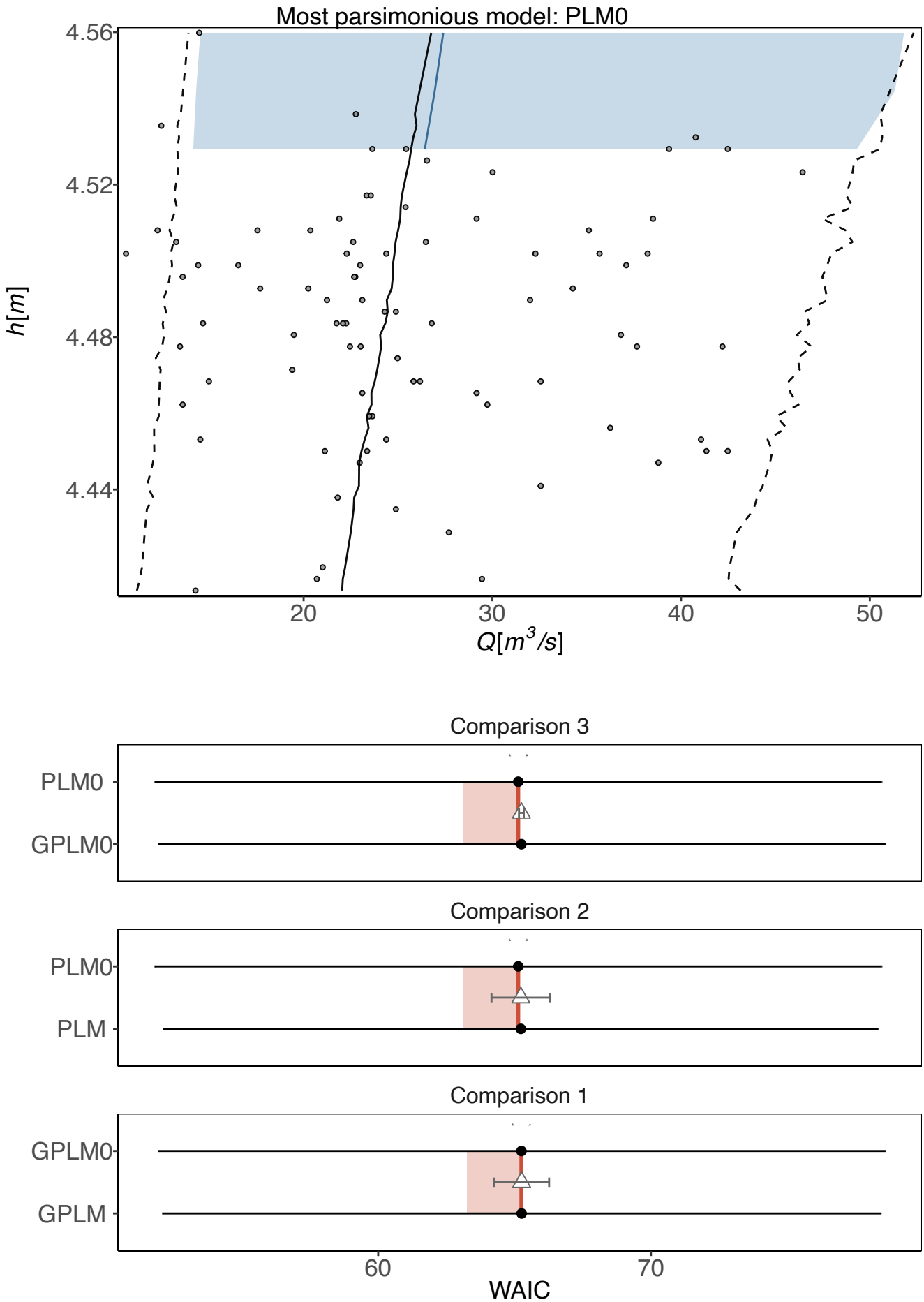
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	16.66	[3.18; 52.21]	2628	1.00
b	1.62	[0.78; 2.47]	6794	1.00
c	3.21	[1.61; 3.94]	2441	1.00
σ_η	0.15	[0.01; 0.53]	882	1.03
η_1	−2.41	[−3.32; −1.95]	1713	1.01
η_2	−1.91	[−3.69; −0.23]	1554	1.01
η_3	−1.36	[−3.99; 0.85]	1796	1.01
η_4	−0.95	[−4.13; 1.71]	2028	1.00
η_5	−0.63	[−4.32; 2.51]	1990	1.01
η_6	−0.43	[−4.81; 3.15]	2276	1.00

Yuma, Usa – PLM0



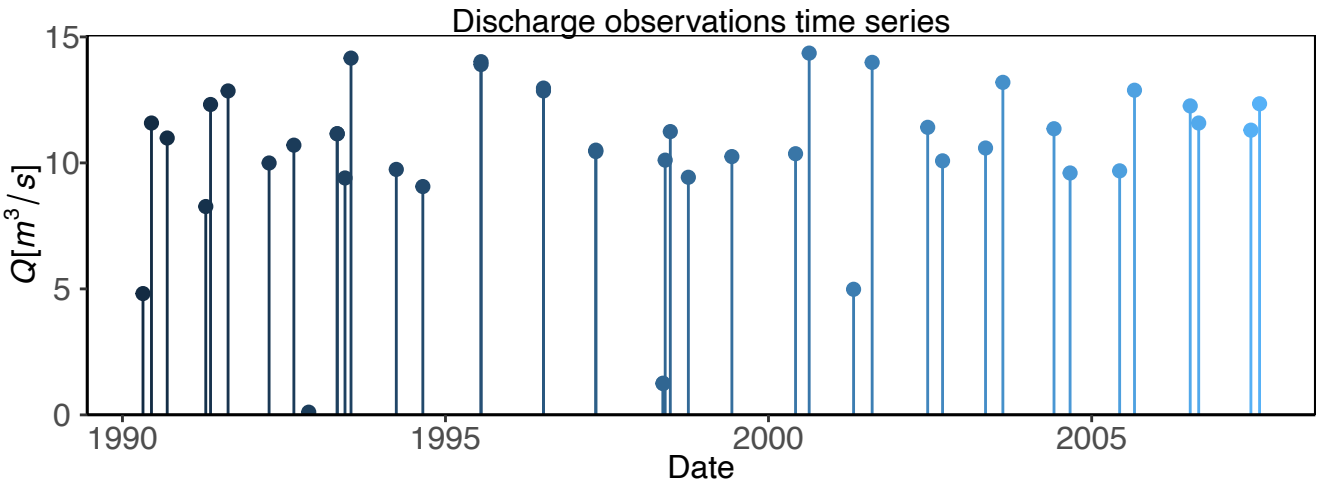
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	16.65	[3.23; 53.92]	9479	1.00
b	1.62	[0.77; 2.48]	12915	1.00
c	3.21	[1.62; 3.95]	9188	1.00
σ_ε	0.33	[0.29; 0.38]	9589	1.00

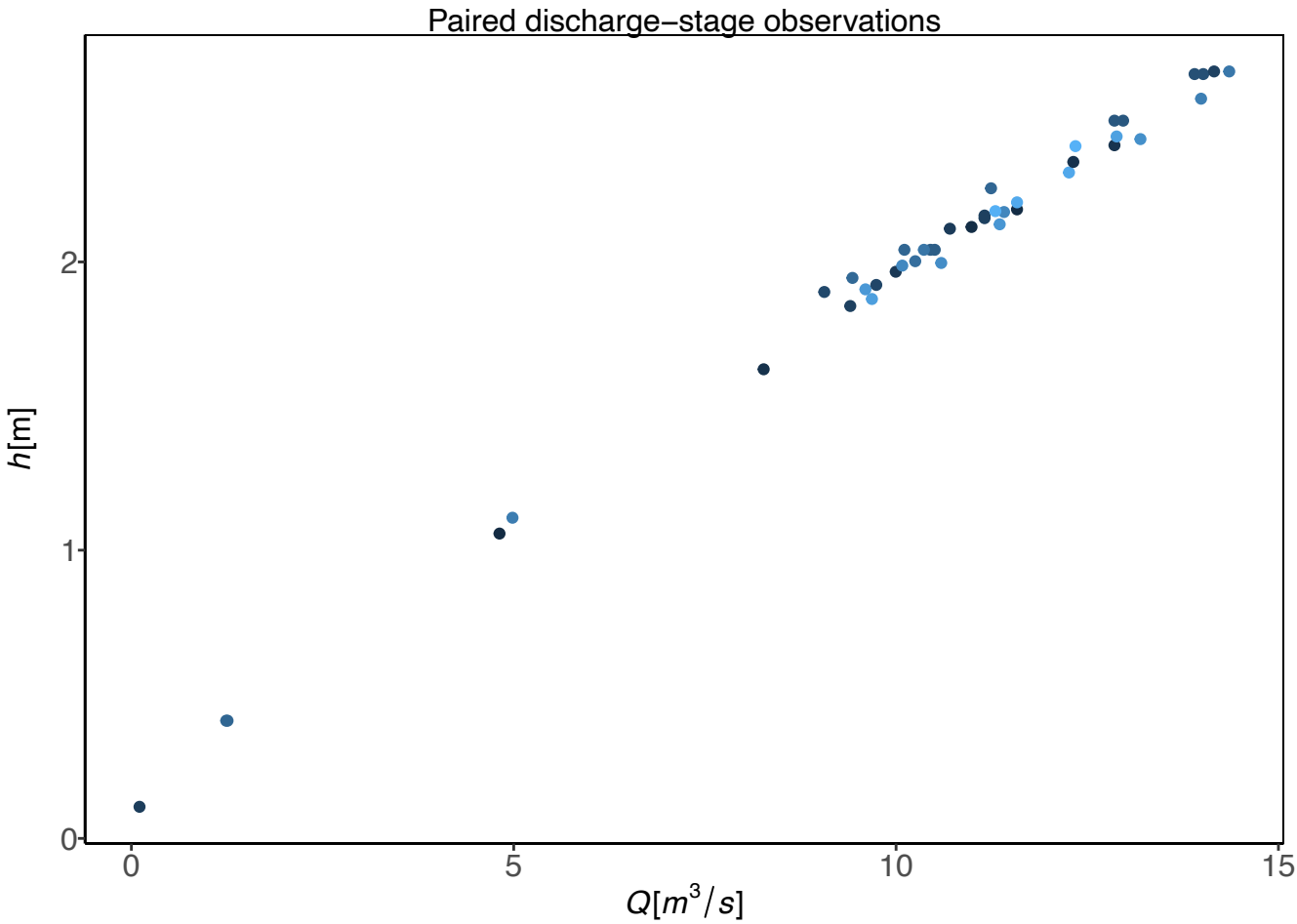
Power−law tournament results for Yuma, Usa



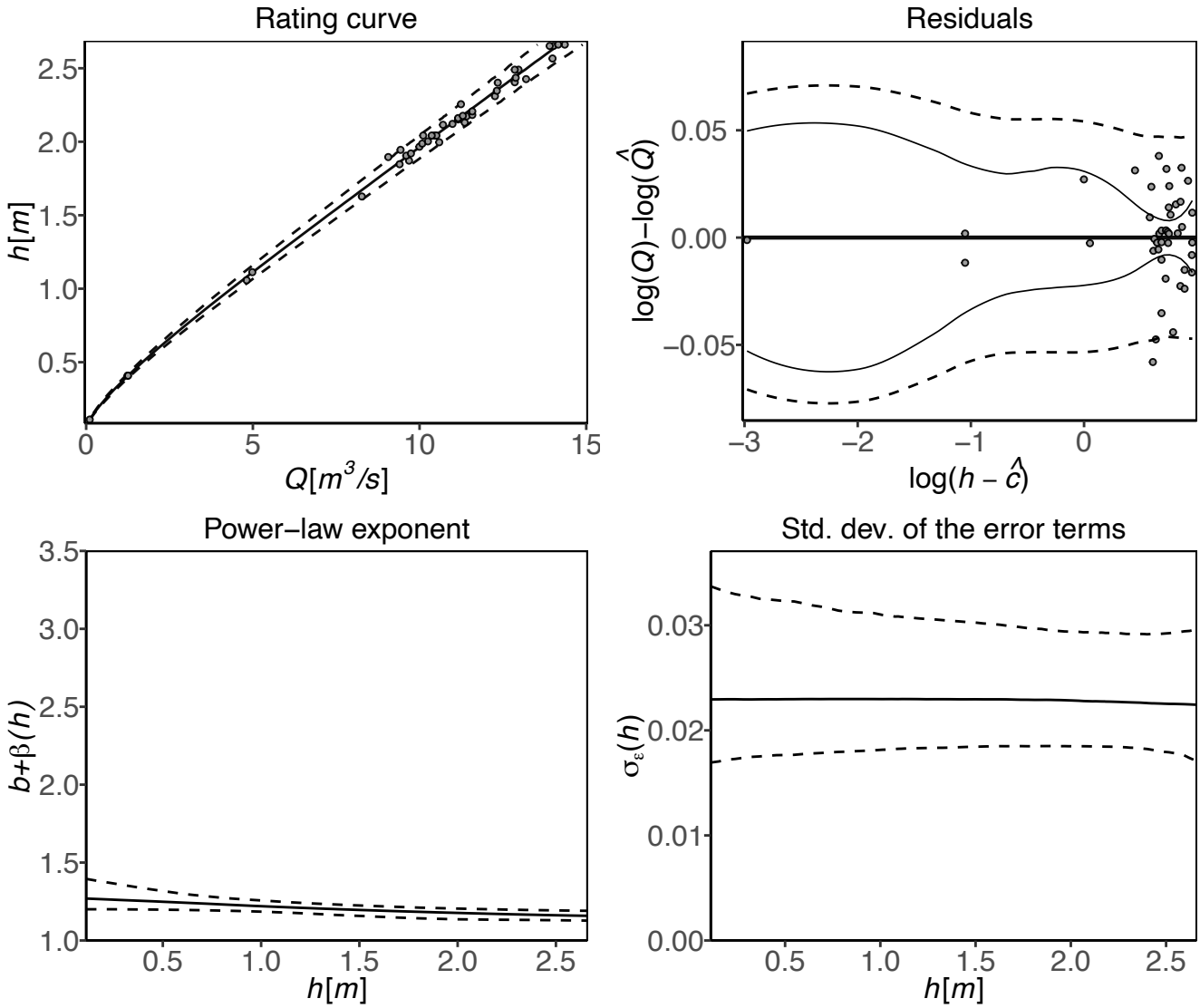
Station name:	Oakdale
Location:	California, USA
Station number:	11301000
Number of observations:	43
Start date:	1990–04–27
End date:	2007–08–08
Max. discharge (m^3/s):	14.4
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.51
GPLM0	0.14	0.48
PLM	9.37	0.00
PLM0	9.79	0.00



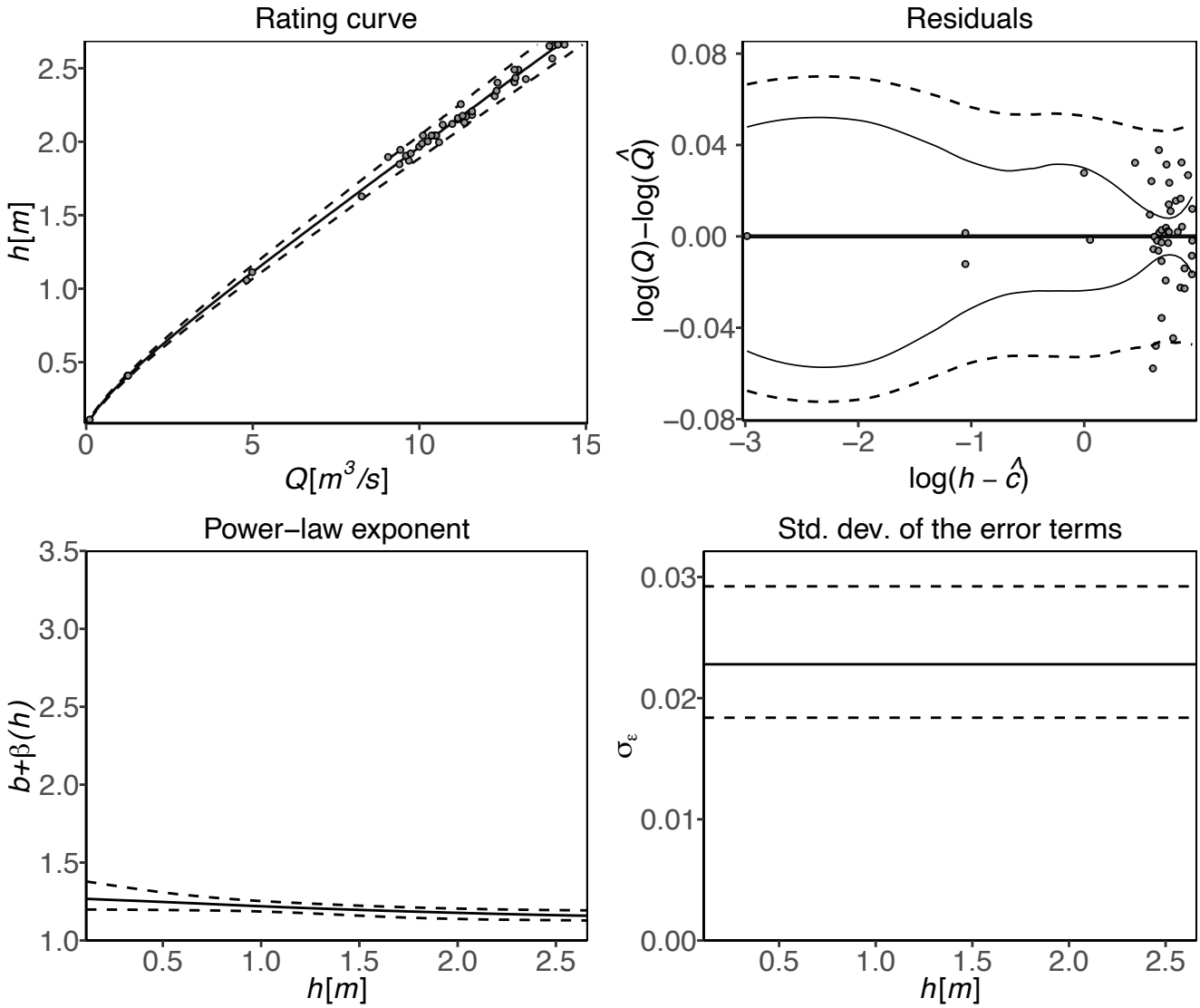


Oakdale, Usa – GPLM



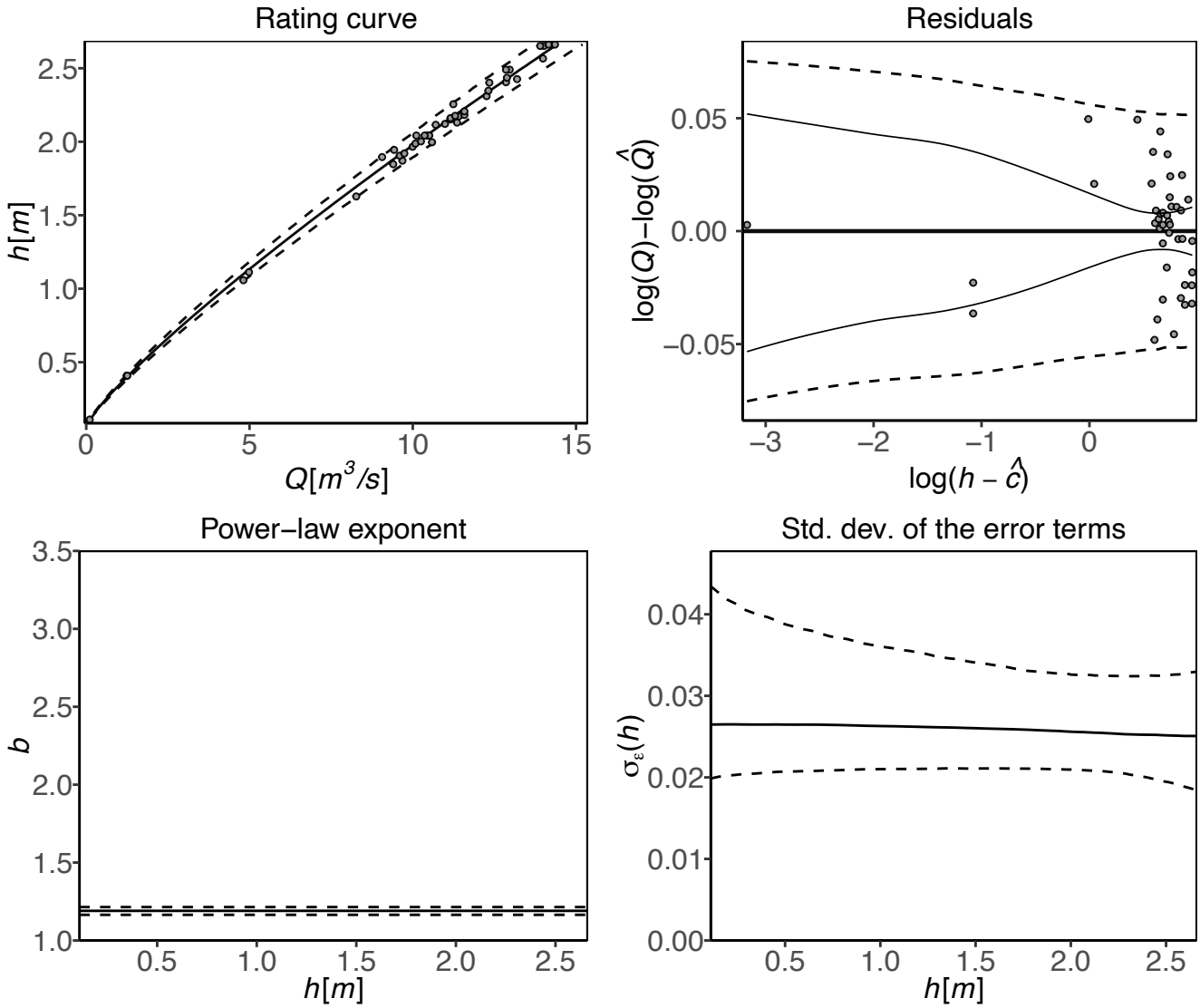
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.68	[4.58; 4.79]	3525	1.00
b	1.83	[1.83; 1.84]	8356	1.00
c	0.06	[0.04; 0.07]	1247	1.00
σ_β	0.44	[0.24; 0.93]	2186	1.00
ϕ_β	10.63	[2.80; 65.26]	1913	1.00
σ_η	0.08	[0.00; 0.42]	1340	1.01
η_1	–7.55	[–8.16; –6.78]	1537	1.00
η_2	–7.52	[–9.37; –5.66]	2092	1.00
η_3	–7.53	[–9.98; –5.02]	2030	1.00
η_4	–7.52	[–10.60; –4.39]	2092	1.00
η_5	–7.69	[–11.15; –4.03]	2288	1.00
η_6	–7.85	[–11.74; –3.63]	2186	1.00

Oakdale, Usa – GPLM0



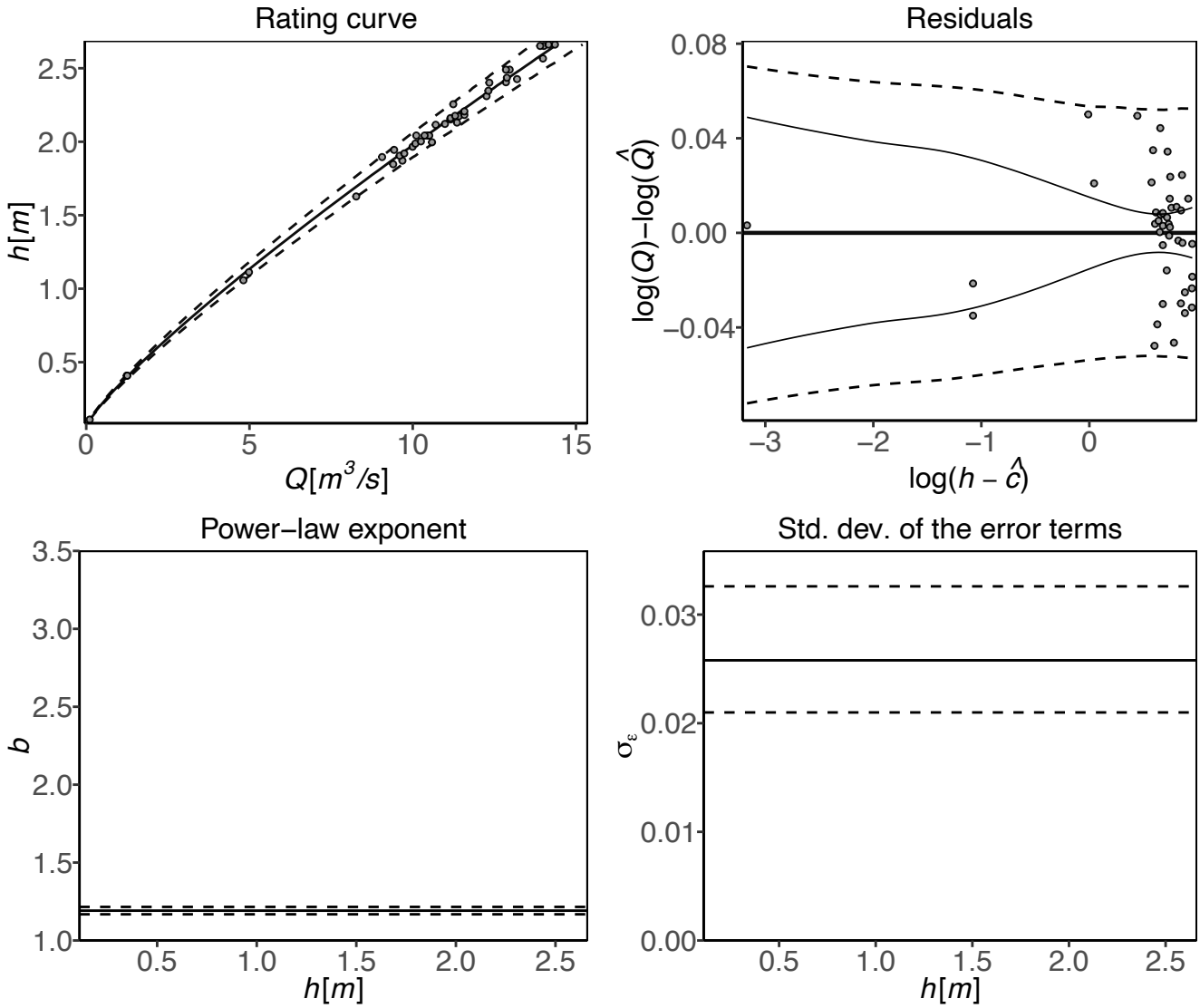
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.68	[4.58; 4.79]	6098	1.00
b	1.83	[1.83; 1.84]	11892	1.00
c	0.06	[0.05; 0.07]	2778	1.00
σ_ε	0.02	[0.02; 0.03]	4028	1.00
σ_β	0.66	[0.48; 0.96]	4777	1.00
ϕ_β	10.79	[3.07; 88.86]	1252	1.02

Oakdale, Usa – PLM



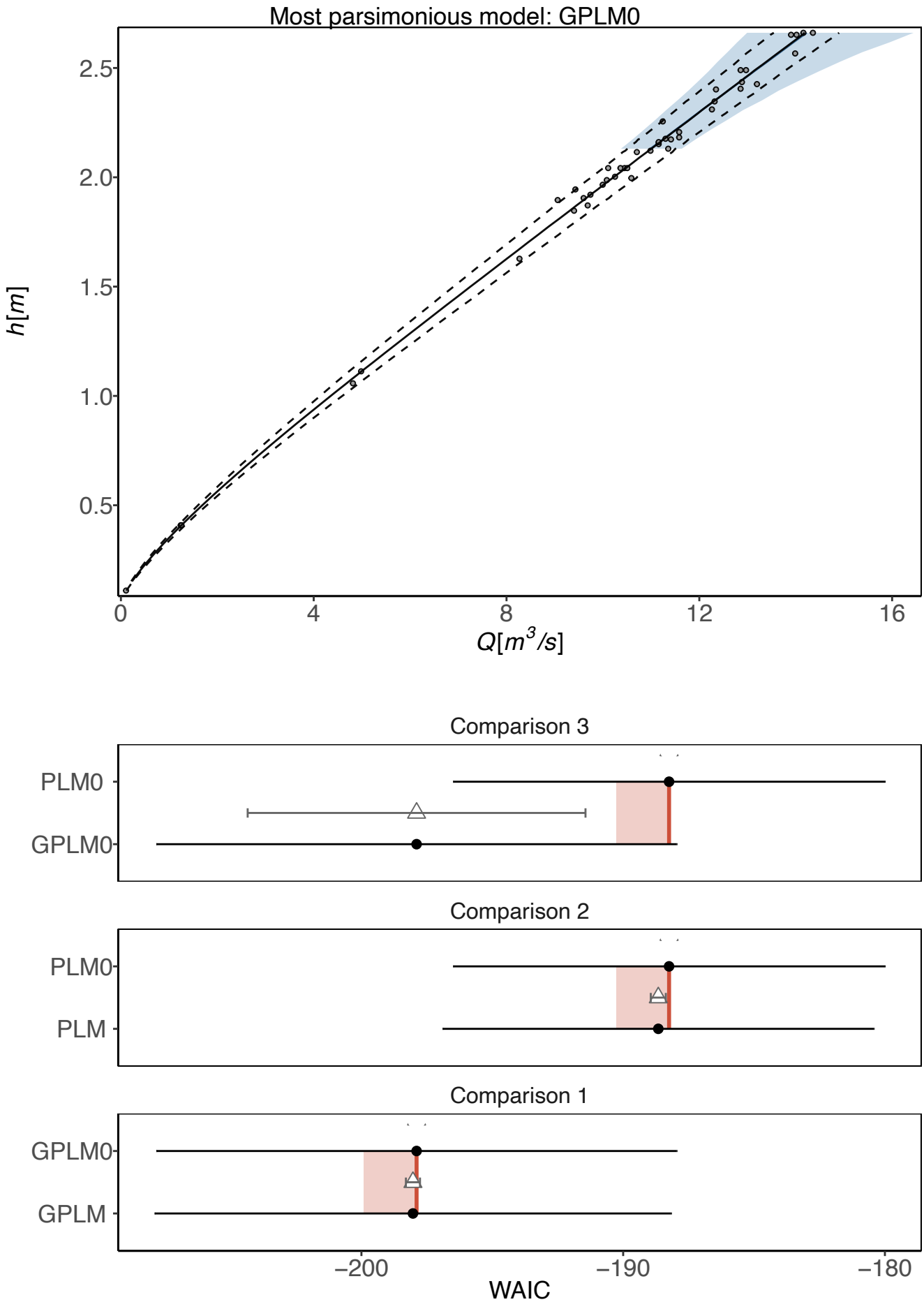
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.64	[4.54; 4.73]	2599	1.00
b	1.19	[1.16; 1.21]	2553	1.00
c	0.07	[0.06; 0.07]	2134	1.00
σ_η	0.09	[0.00; 0.49]	1522	1.01
η_1	–7.26	[–7.84; –6.27]	1457	1.01
η_2	–7.23	[–9.07; –5.44]	2342	1.00
η_3	–7.37	[–9.84; –4.88]	2391	1.00
η_4	–7.64	[–10.58; –4.51]	2349	1.00
η_5	–7.90	[–11.11; –4.10]	2511	1.00
η_6	–7.99	[–11.68; –3.80]	2792	1.00

Oakdale, Usa – PLM0



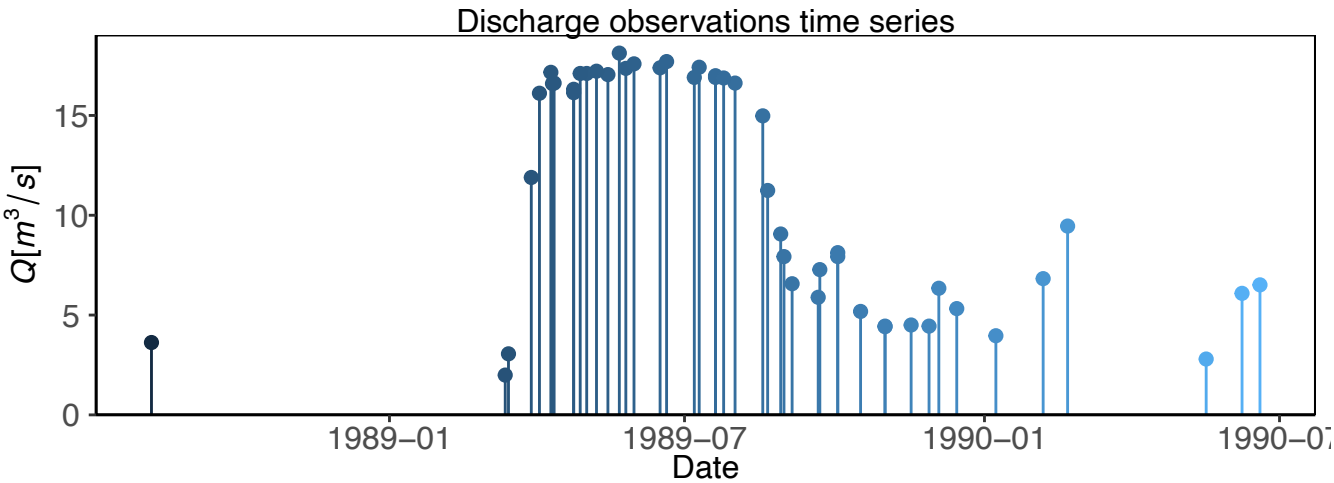
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	4.63	[4.54; 4.72]	10045	1.00
b	1.19	[1.17; 1.22]	9855	1.00
c	0.07	[0.06; 0.07]	8646	1.00
σ_ε	0.03	[0.02; 0.03]	9627	1.00

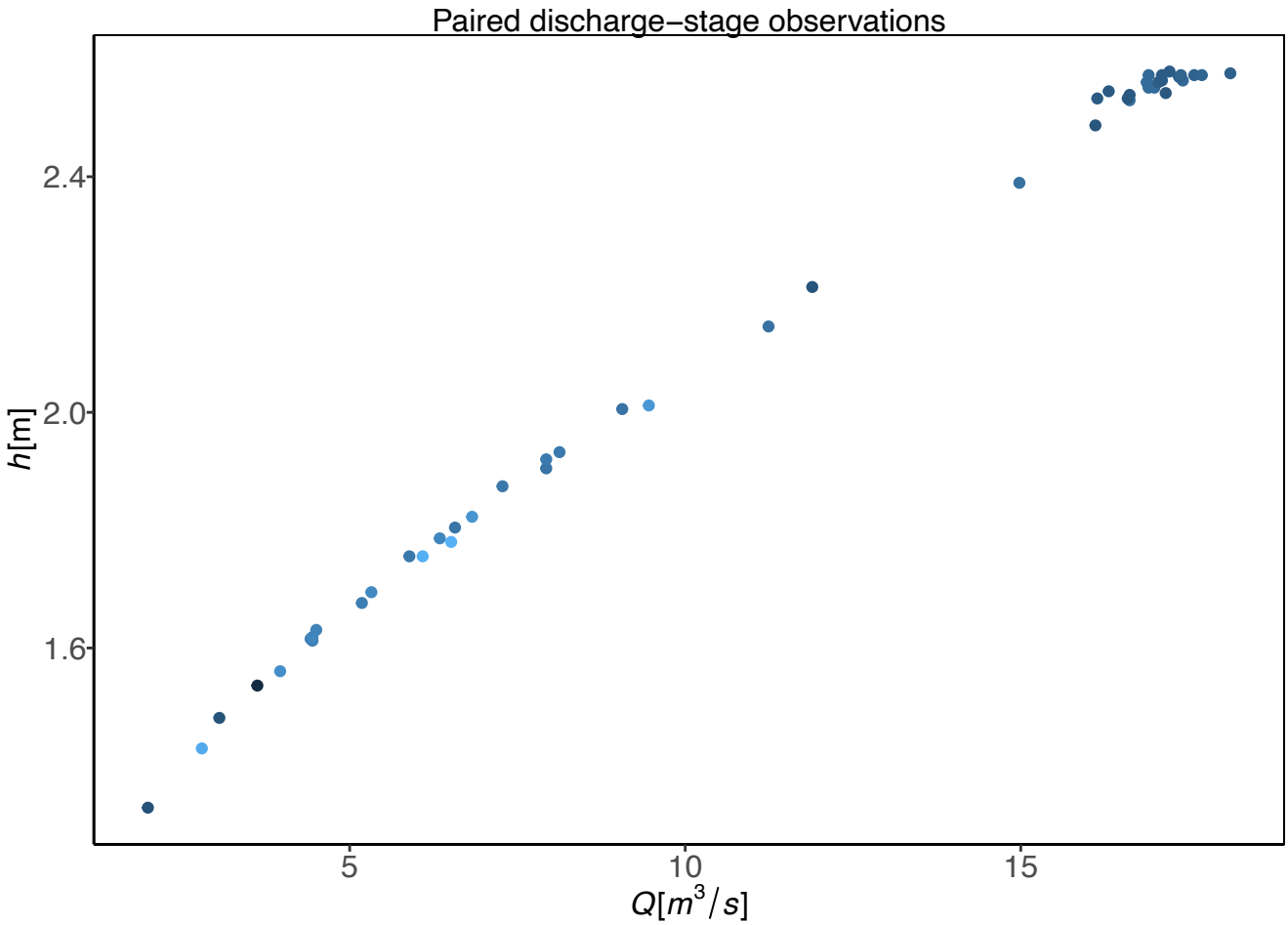
Power−law tournament results for Oakdale, Usa



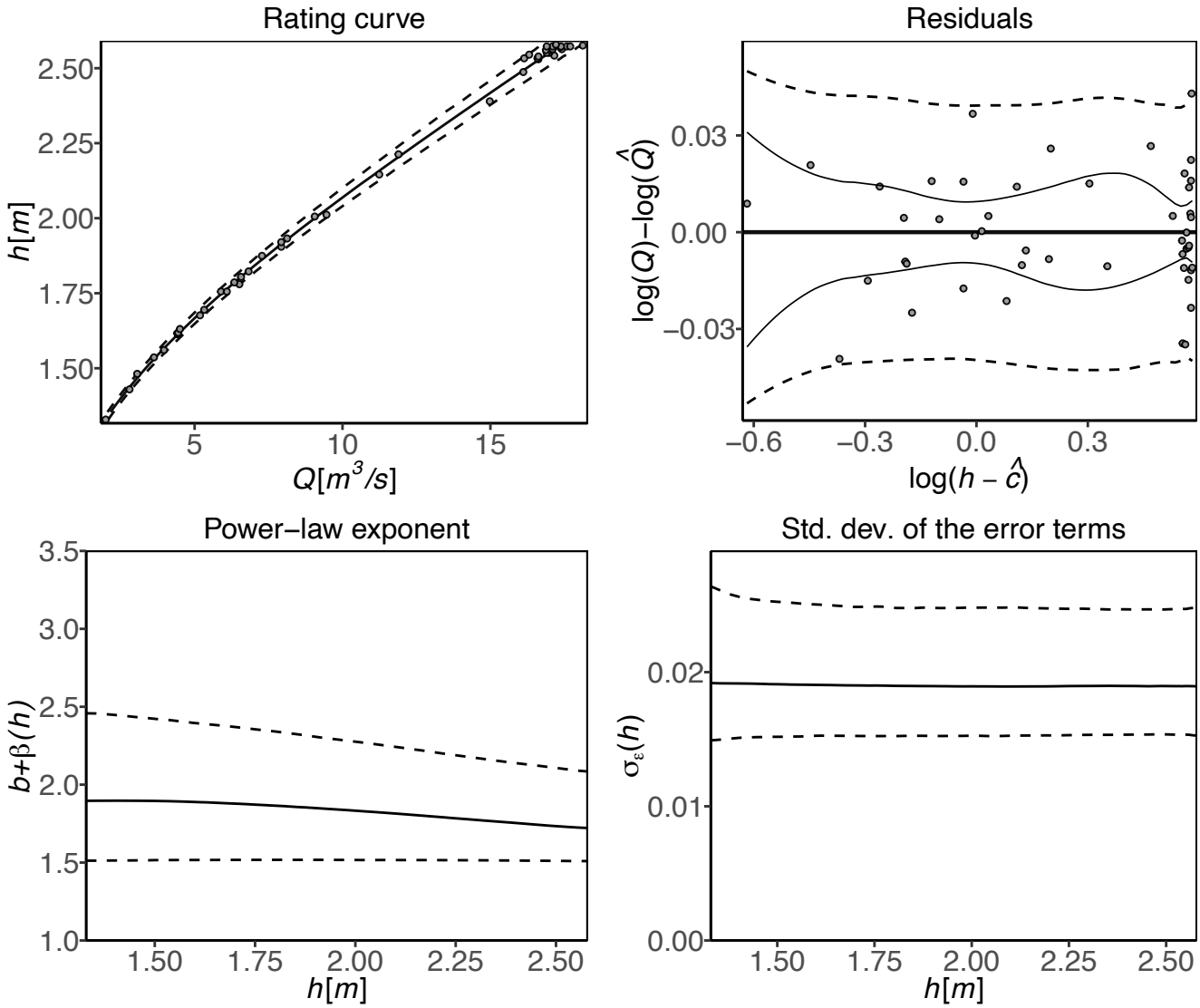
Station name:	Borel
Location:	California, USA
Station number:	11187500
Number of observations:	47
Start date:	1988–08–08
End date:	1990–06–19
Max. discharge (m^3/s):	18.1
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	1.03	0.37
GPLM0	0.00	0.62
PLM	9.60	0.01
PLM0	9.57	0.01



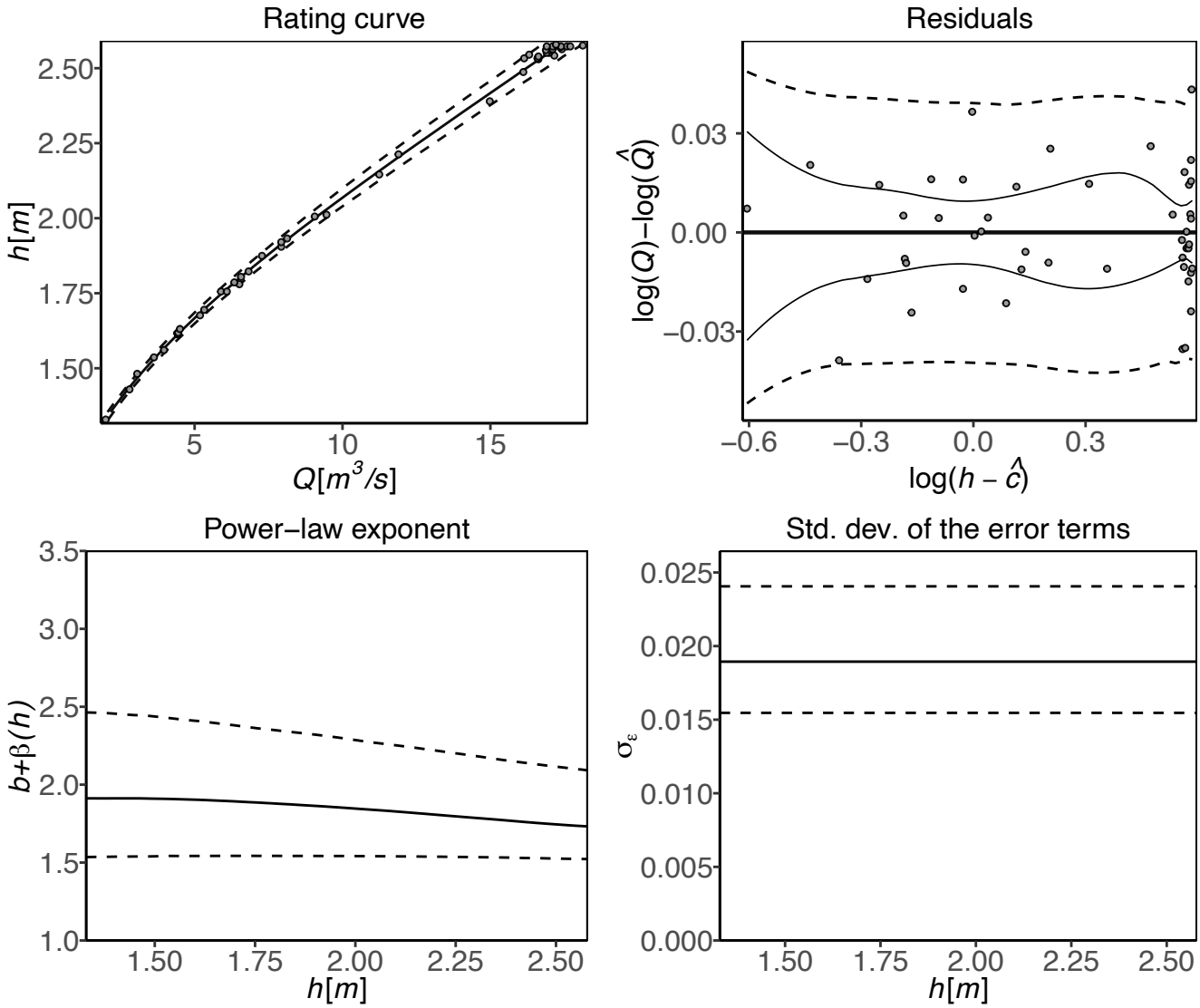


Borel, Usa – GPLM



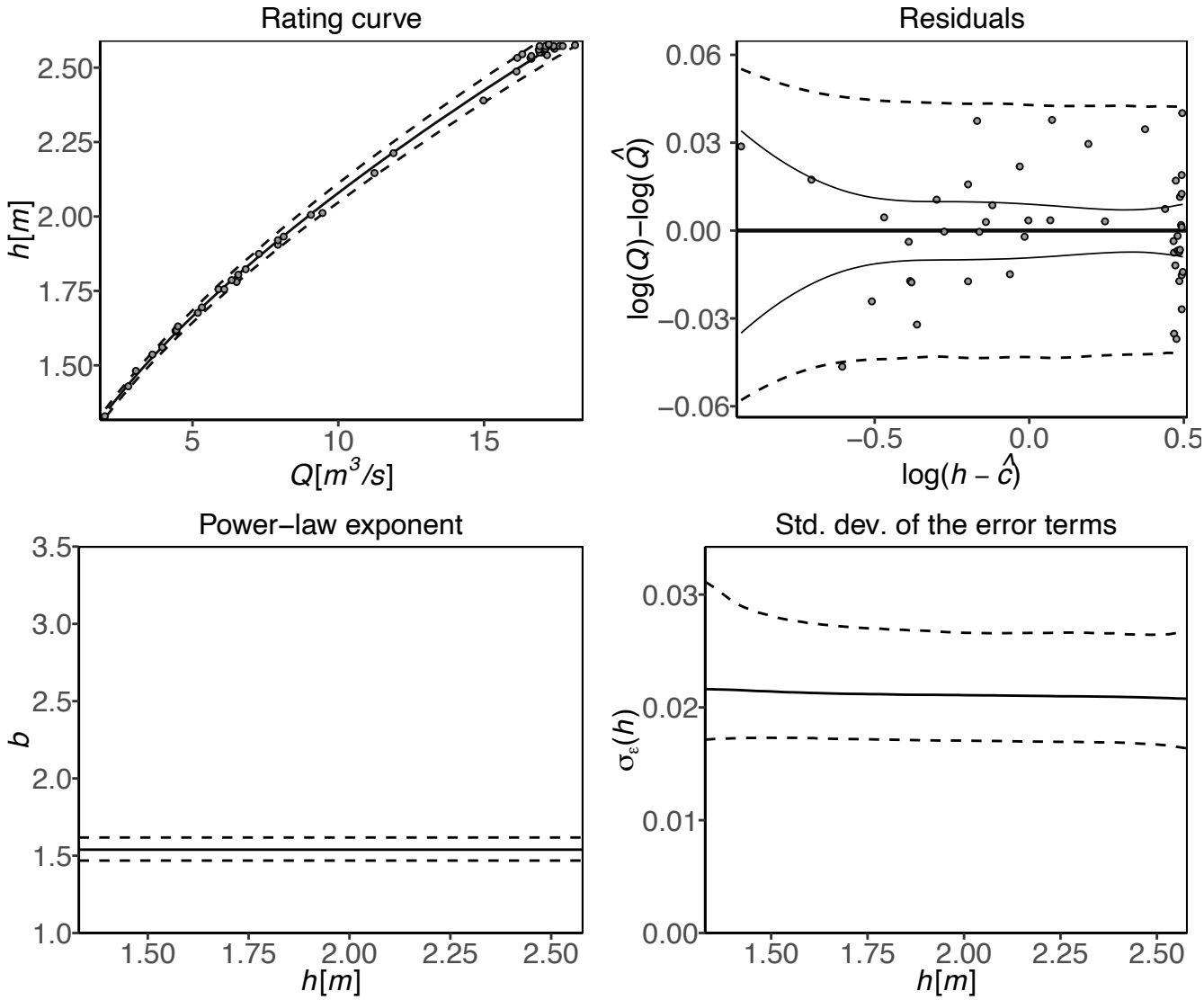
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.40	[4.11; 8.36]	1064	1.03
b	1.83	[1.83; 1.84]	8665	1.00
c	0.79	[0.58; 0.95]	1007	1.05
σ_β	0.22	[0.07; 0.73]	2275	1.00
ϕ_β	1.88	[0.43; 1953.79]	772	1.14
σ_η	0.07	[0.00; 0.34]	1521	1.00
η_1	–7.91	[–8.41; –7.27]	1653	1.01
η_2	–7.97	[–9.83; –6.08]	2160	1.00
η_3	–8.09	[–10.66; –5.49]	2015	1.00
η_4	–8.09	[–11.11; –4.82]	2218	1.00
η_5	–8.05	[–11.48; –4.39]	2127	1.00
η_6	–8.07	[–11.92; –3.99]	2177	1.00

Borel, Usa – GPLM0



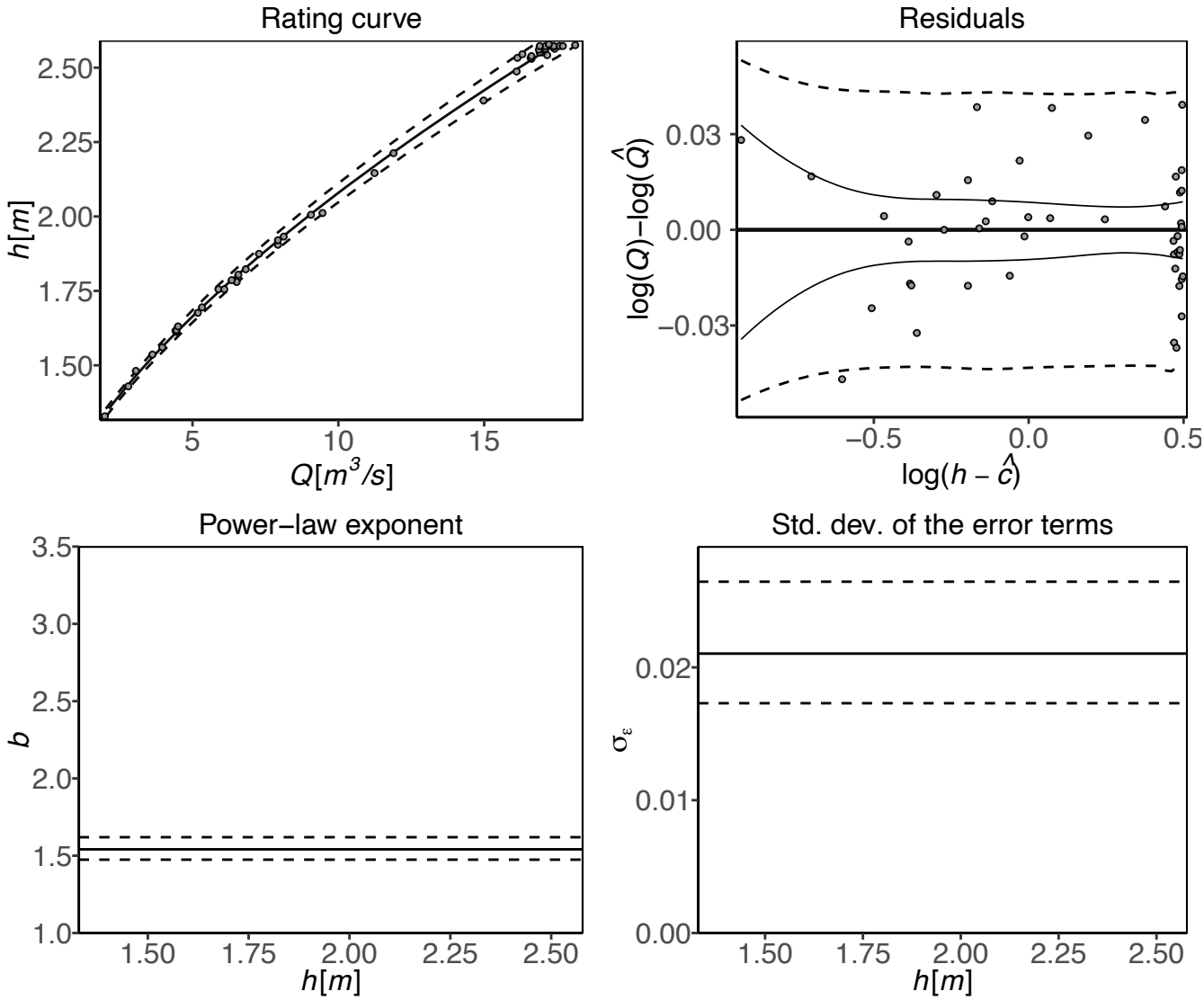
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	6.32	[4.09; 8.19]	2029	1.00
b	1.83	[1.83; 1.84]	11817	1.00
c	0.78	[0.58; 0.94]	1721	1.00
σ_ε	0.02	[0.02; 0.02]	4334	1.00
σ_β	0.47	[0.27; 0.84]	5353	1.00
ϕ_β	1.82	[0.42; 27.53]	1470	1.00

Borel, Usa – PLM



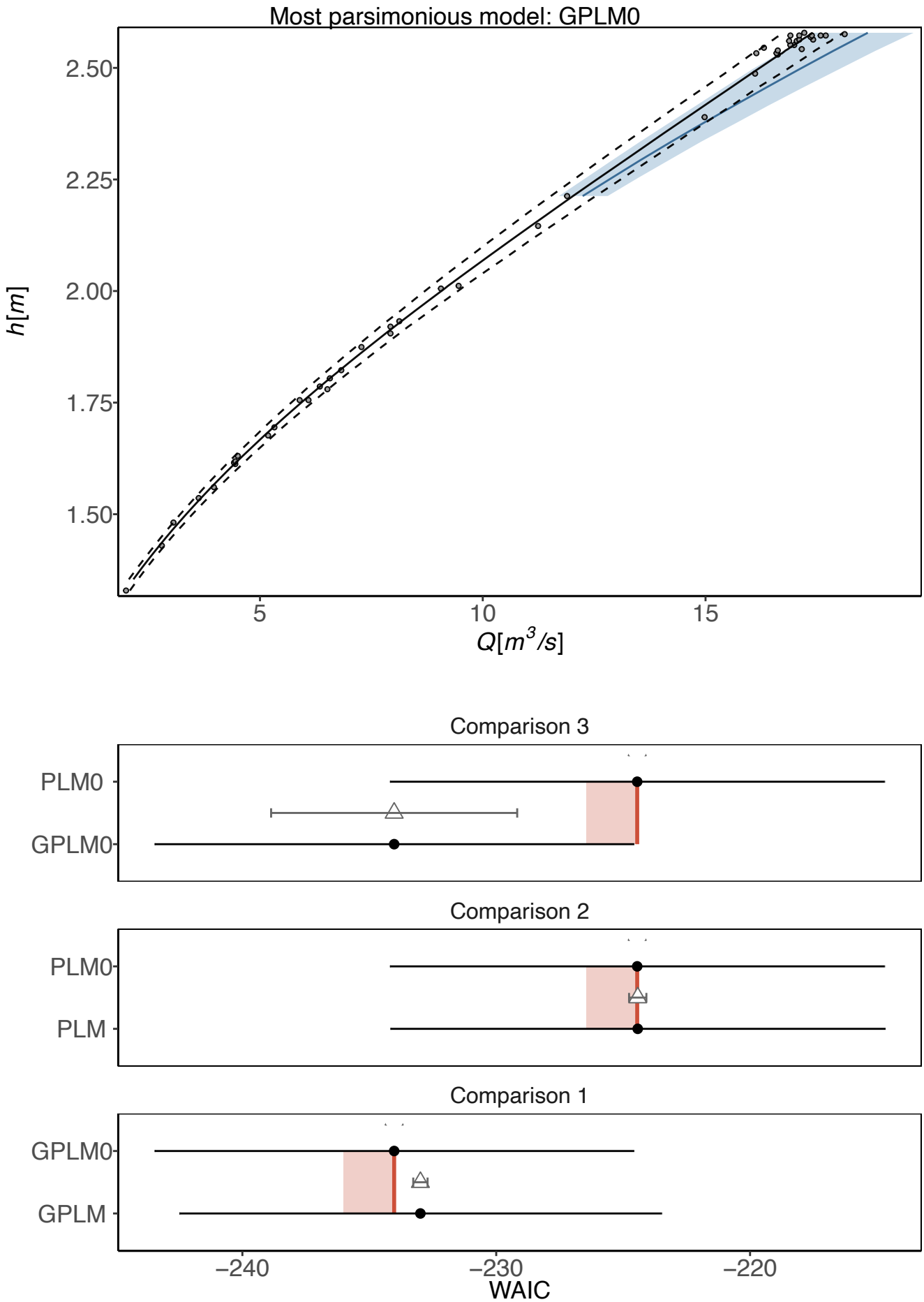
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.13	[7.49; 8.71]	2421	1.00
b	1.54	[1.47; 1.62]	2476	1.00
c	0.94	[0.89; 0.98]	2386	1.00
σ_η	0.08	[0.00; 0.41]	1686	1.00
η_1	–7.67	[–8.13; –6.94]	2158	1.00
η_2	–7.82	[–9.63; –5.98]	2508	1.00
η_3	–8.04	[–10.58; –5.45]	2494	1.00
η_4	–8.08	[–11.14; –4.84]	2563	1.00
η_5	–8.21	[–11.65; –4.48]	2639	1.00
η_6	–8.36	[–12.11; –4.07]	2548	1.00

Borel, Usa – PLM0



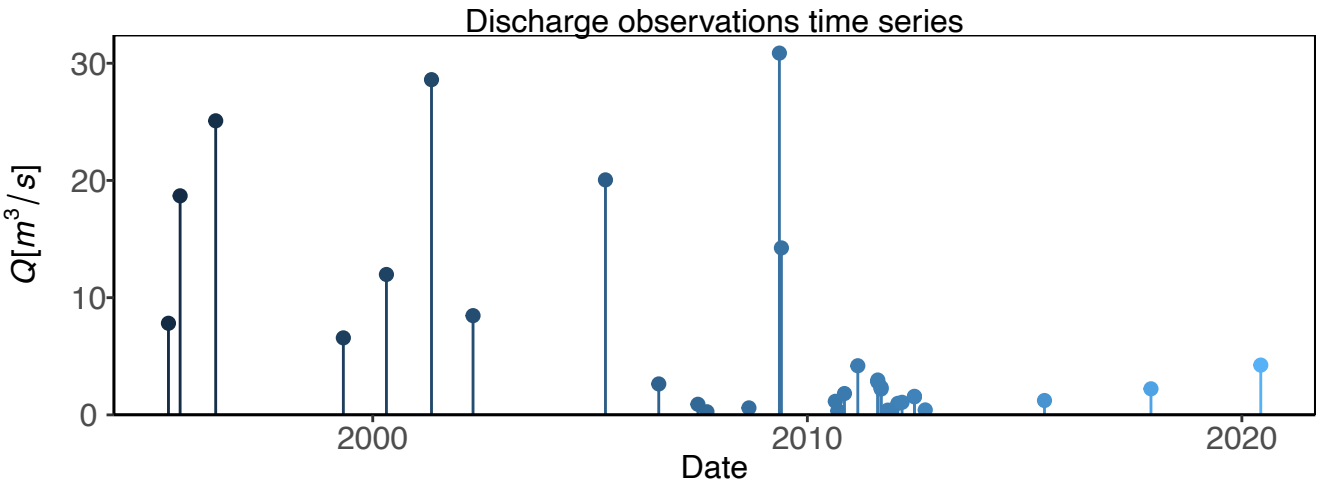
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	8.11	[7.49; 8.66]	9351	1.00
b	1.54	[1.47; 1.62]	9492	1.00
c	0.93	[0.89; 0.97]	9360	1.00
σ_ε	0.02	[0.02; 0.03]	9244	1.00

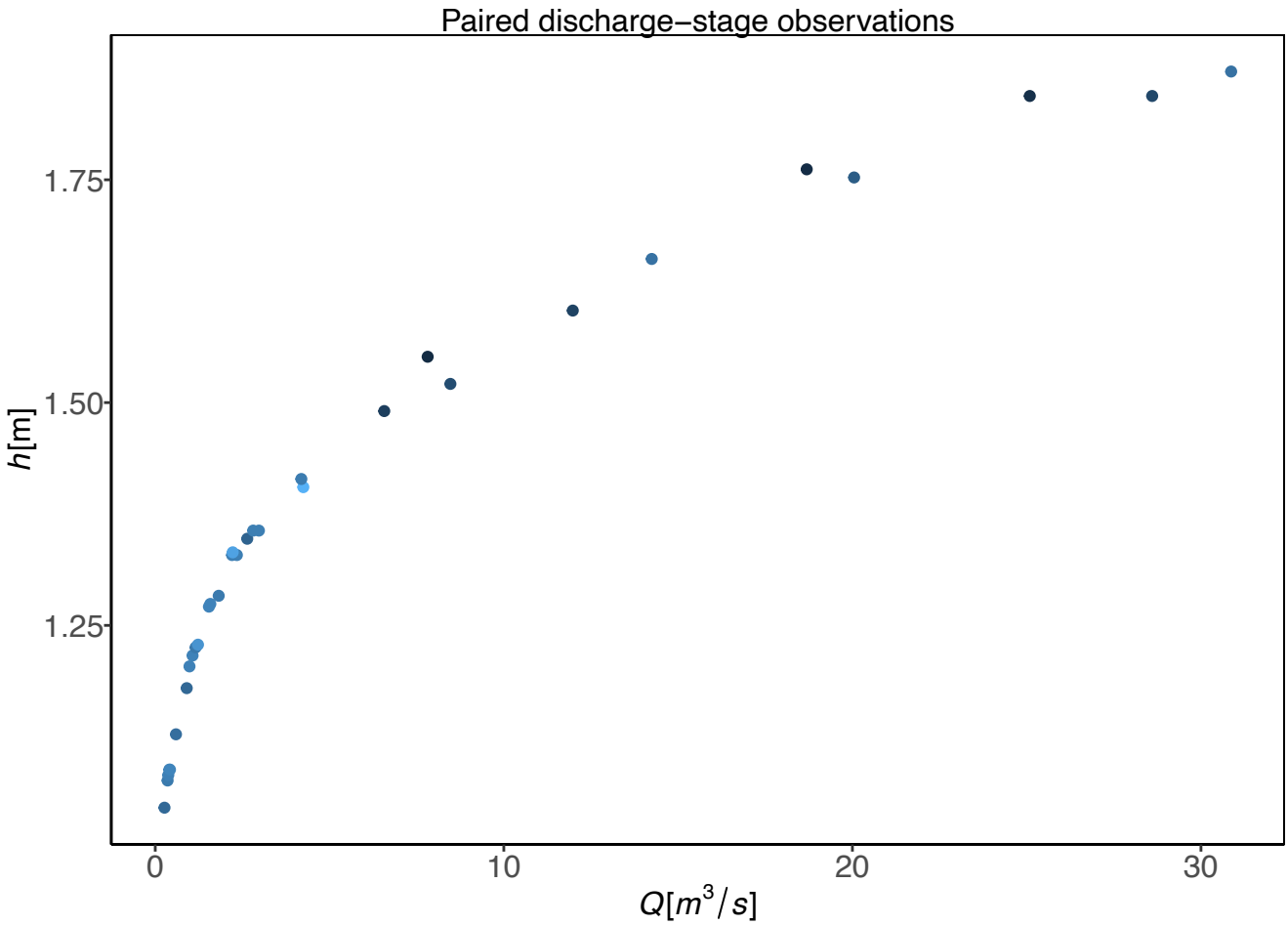
Power−law tournament results for Borel, Usa



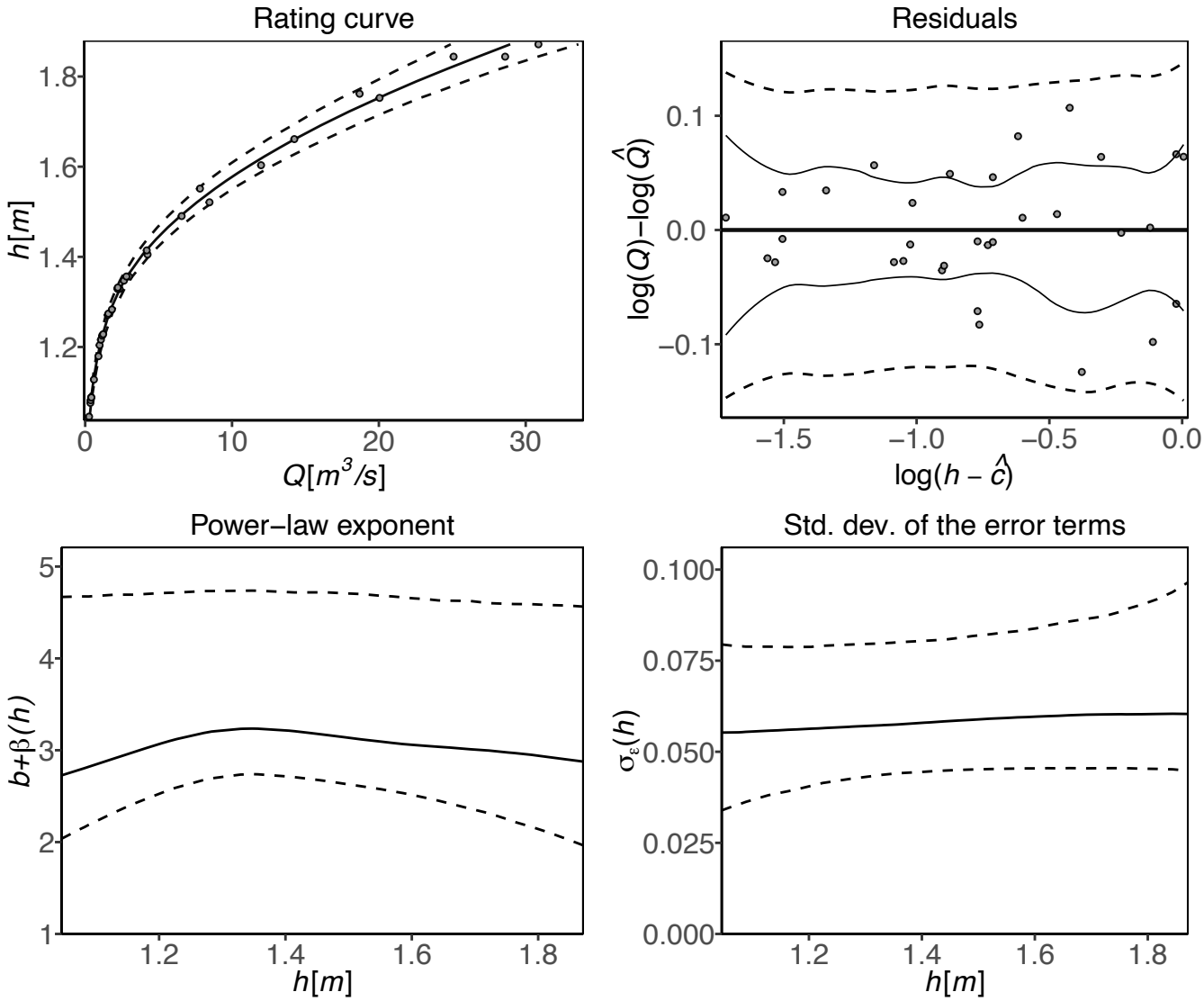
Station name:	Kaweah Hammond
Location:	California, USA
Station number:	11208600
Number of observations:	32
Start date:	1995–04–20
End date:	2020–06–08
Max. discharge (m^3/s):	30.9
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.00	0.67
GPLM0	1.43	0.33
PLM	18.73	0.00
PLM0	18.90	0.00



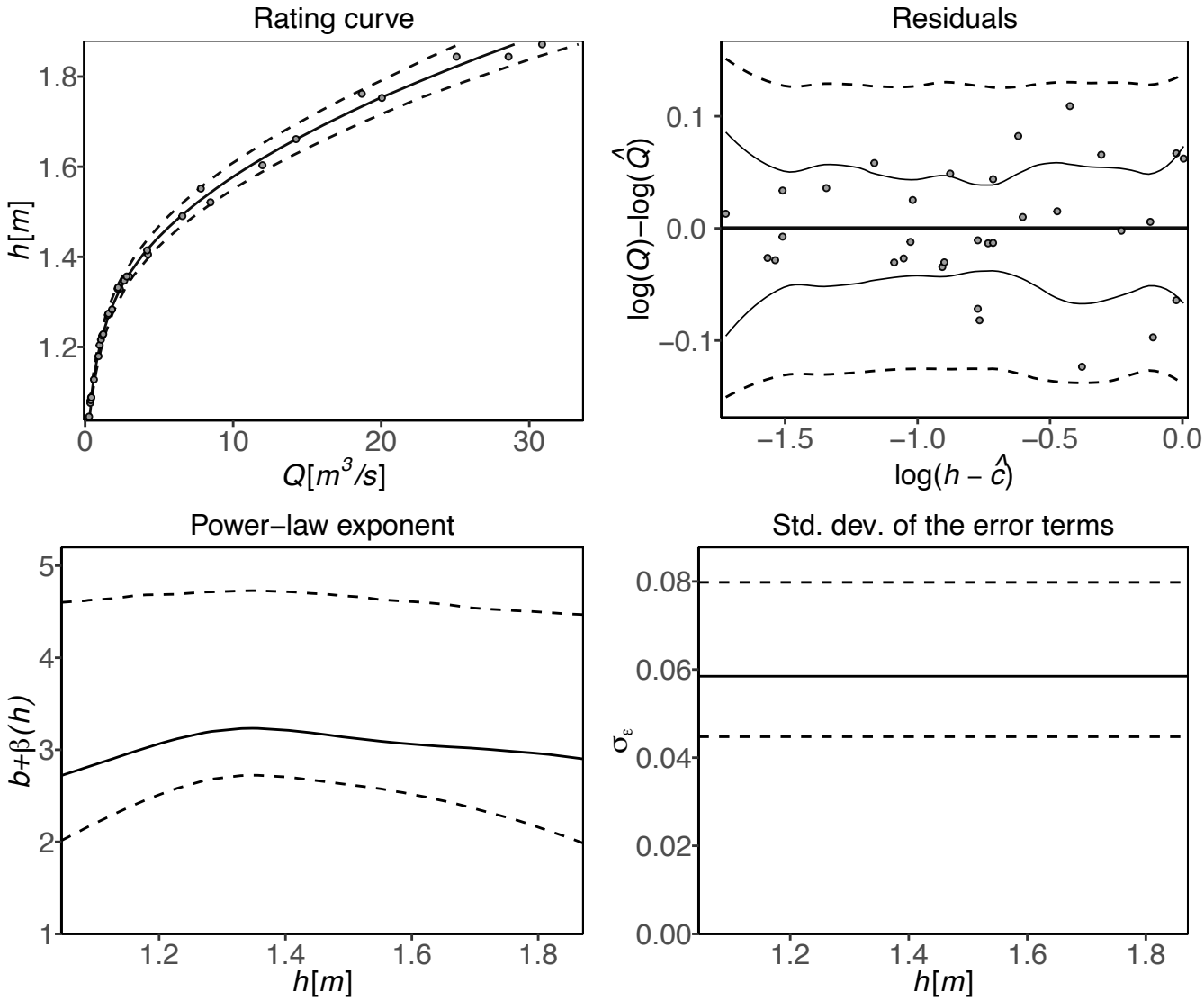


Kaweah Hammond, Usa – GPLM



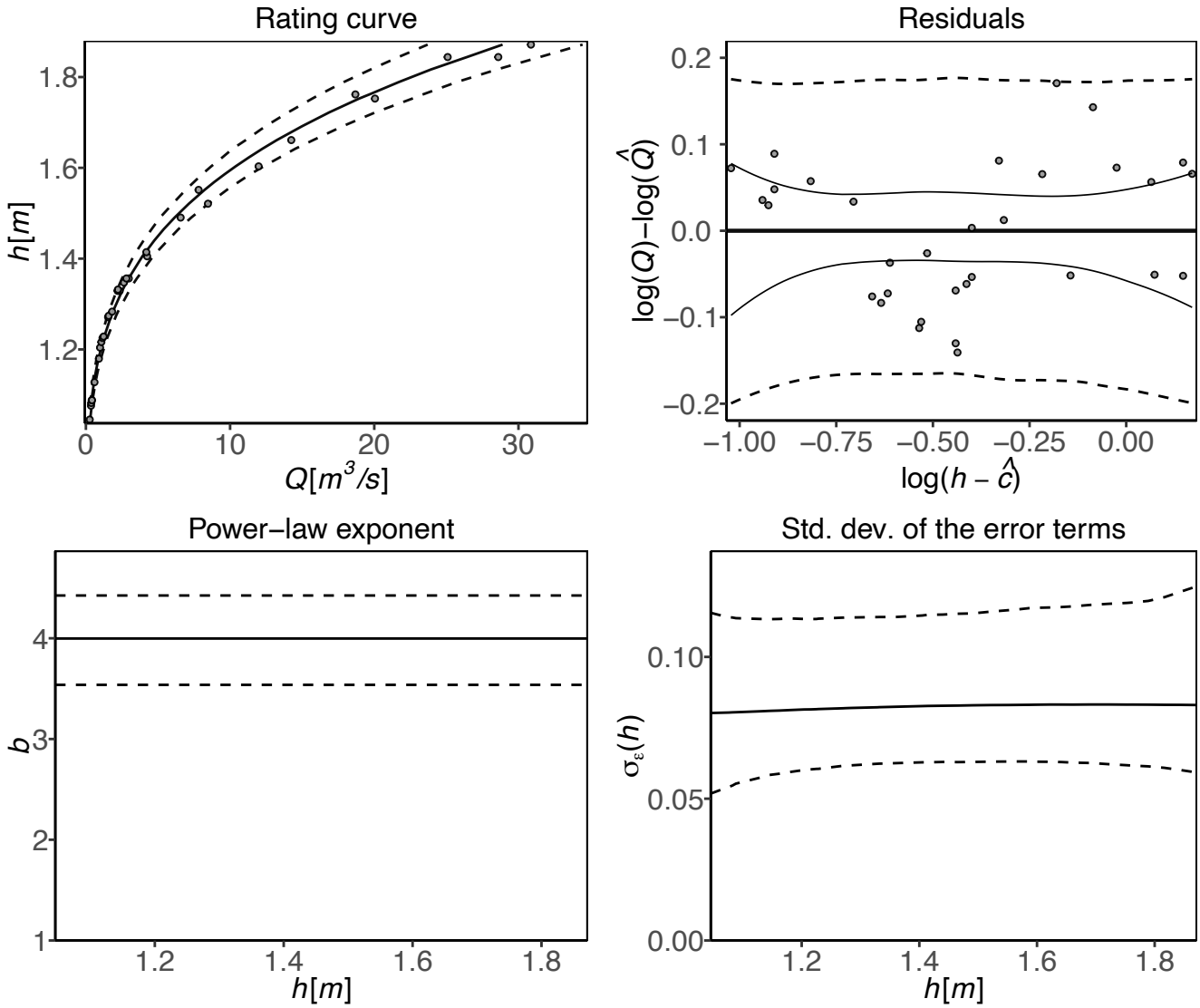
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	28.30	[9.69; 37.02]	1189	1.02
b	1.84	[1.83; 1.84]	7913	1.00
c	0.87	[0.58; 0.96]	1385	1.01
σ_β	0.73	[0.38; 1.43]	1741	1.00
ϕ_β	0.61	[0.33; 4.70]	848	1.04
σ_η	0.10	[0.00; 0.51]	1097	1.01
η_1	–5.79	[–6.77; –5.07]	2333	1.01
η_2	–5.68	[–7.55; –3.79]	1798	1.00
η_3	–5.37	[–7.99; –2.83]	1903	1.00
η_4	–4.94	[–8.40; –1.97]	1815	1.00
η_5	–4.79	[–8.76; –1.41]	1921	1.00
η_6	–4.74	[–9.17; –0.92]	2064	1.00

Kaweah Hammond, Usa – GPLM0



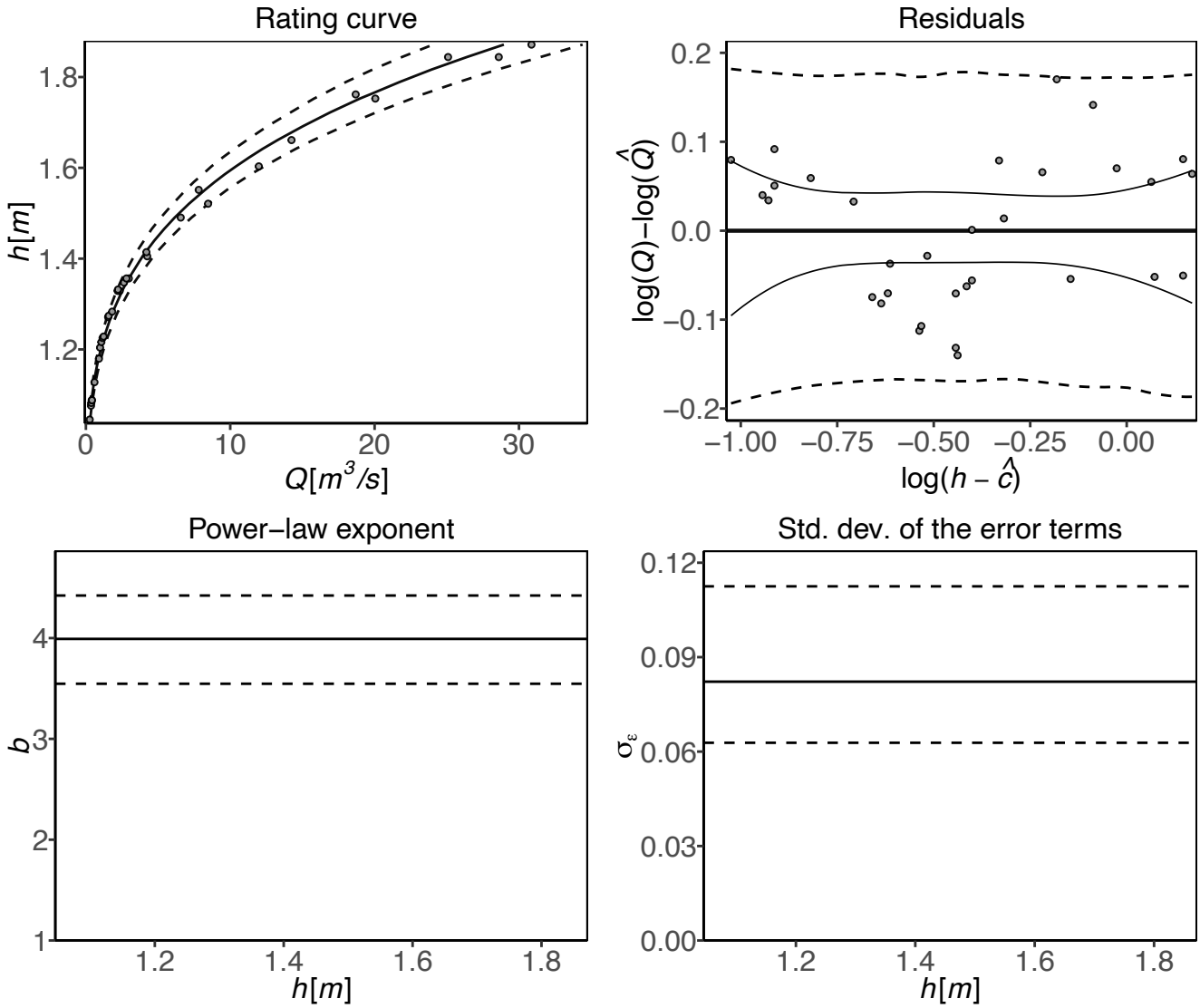
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	28.49	[10.32; 37.57]	2077	1.01
b	1.84	[1.83; 1.84]	12425	1.00
c	0.87	[0.59; 0.96]	2738	1.00
σ_ε	0.06	[0.04; 0.08]	4252	1.00
σ_β	0.86	[0.62; 1.19]	4207	1.00
ϕ_β	0.60	[0.33; 2.41]	993	1.04

Kaweah Hammond, Usa – PLM



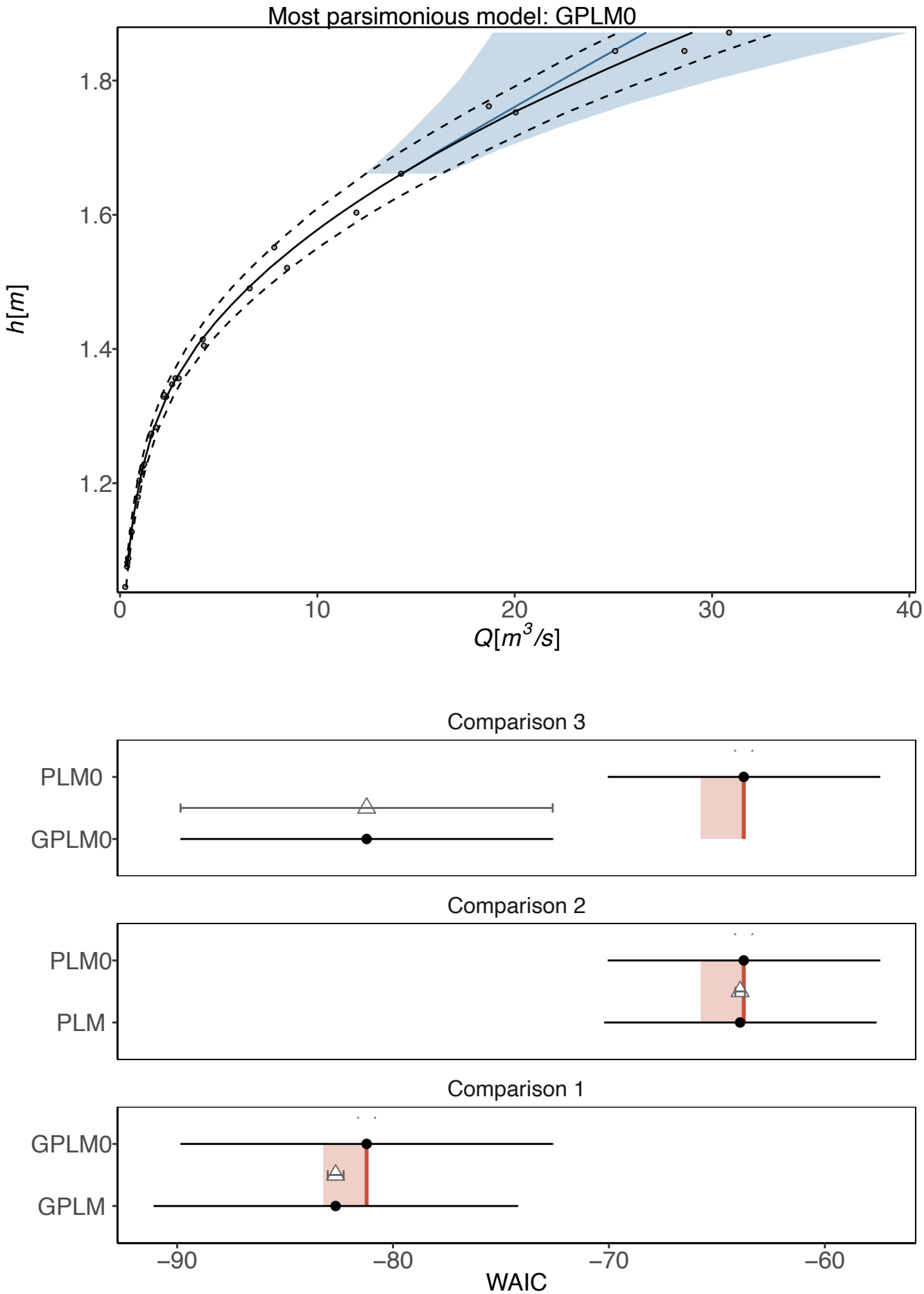
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	14.64	[11.05; 18.76]	2660	1.00
b	4.00	[3.54; 4.42]	2671	1.00
c	0.69	[0.62; 0.76]	2523	1.00
σ_η	0.08	[0.00; 0.45]	1632	1.00
η_1	–5.05	[–5.92; –4.32]	1967	1.00
η_2	–4.92	[–6.78; –3.05]	2554	1.00
η_3	–4.71	[–7.34; –2.18]	2559	1.00
η_4	–4.58	[–7.88; –1.46]	2708	1.00
η_5	–4.58	[–8.36; –1.08]	2785	1.00
η_6	–4.61	[–8.75; –0.63]	2865	1.00

Kaweah Hammond, Usa – PLM0



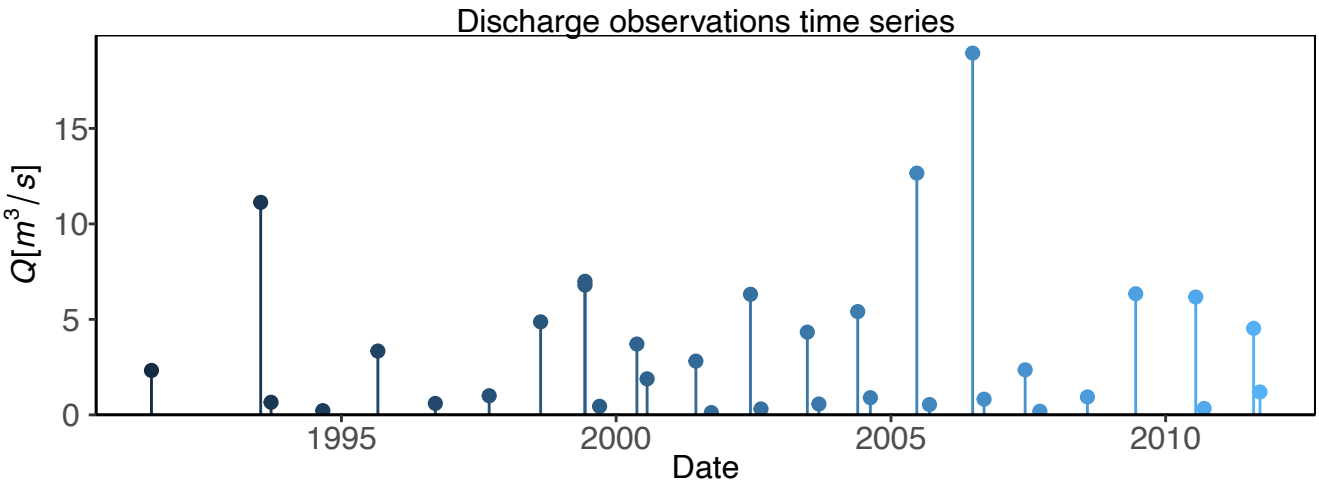
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	14.71	[11.14; 18.79]	9264	1.00
b	3.99	[3.55; 4.42]	9304	1.00
c	0.69	[0.62; 0.76]	9006	1.00
σ_ε	0.08	[0.06; 0.11]	8826	1.00

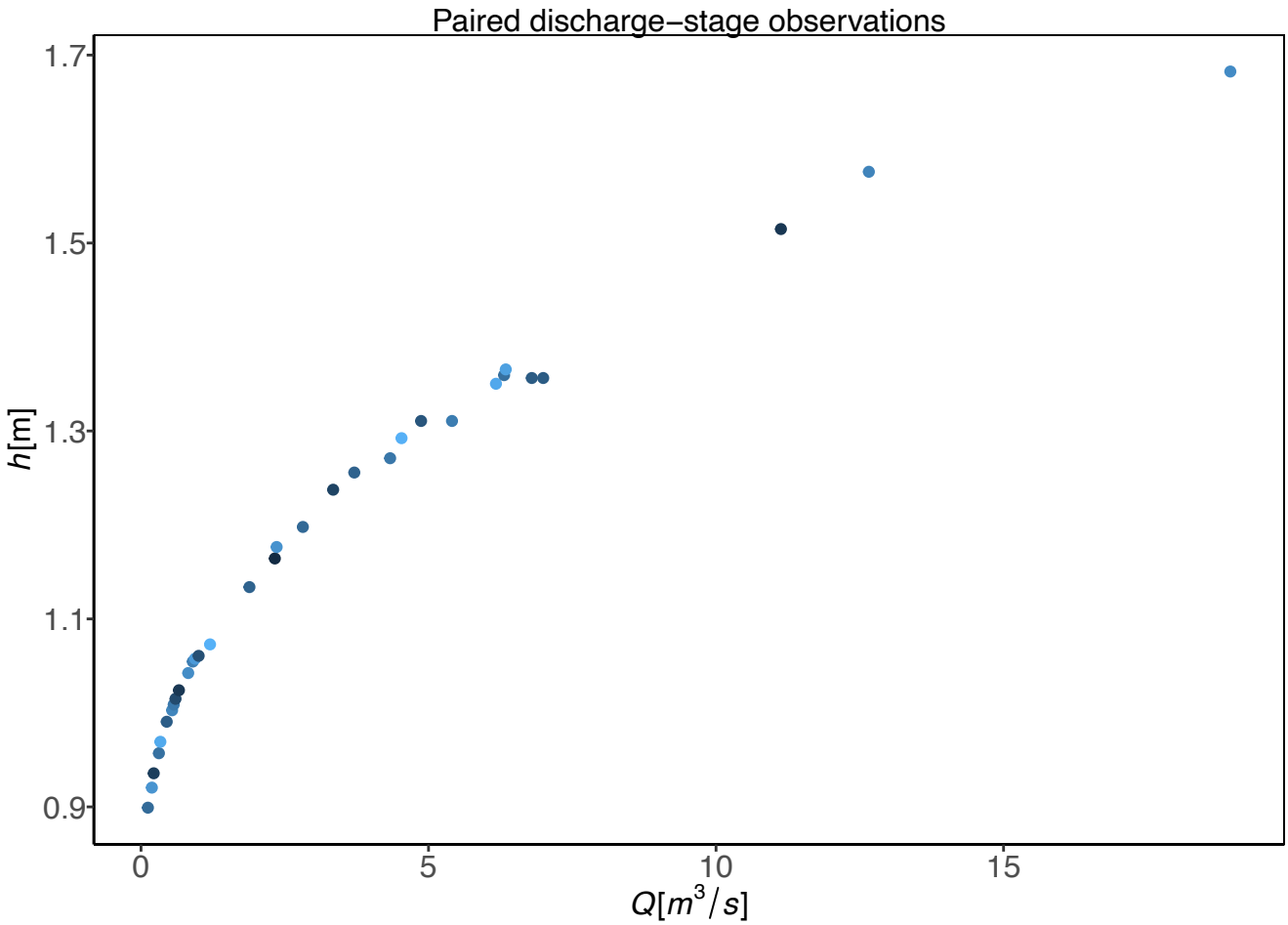
Power−law tournament results for Kaweah Hammond, Usa



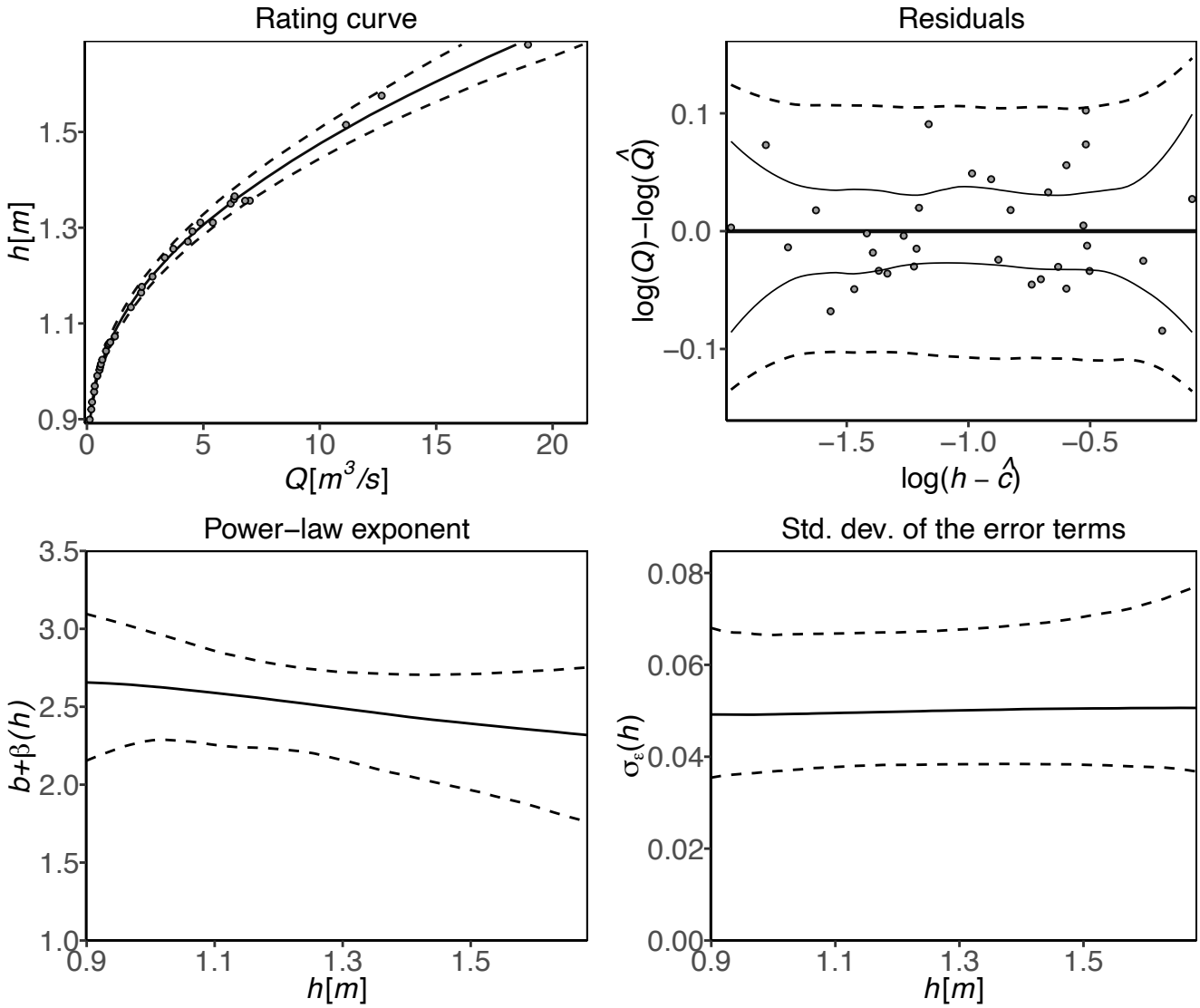
Station name:	Bear
Location:	California, USA
Station number:	11230500
Number of observations:	33
Start date:	1991–07–18
End date:	2011–09–20
Max. discharge (m^3/s):	18.9
Tournament winner:	GPLM0

	dWAIC	Akaike weights
GPLM	0.21	0.45
GPLM0	0.00	0.51
PLM	6.46	0.02
PLM0	6.46	0.02



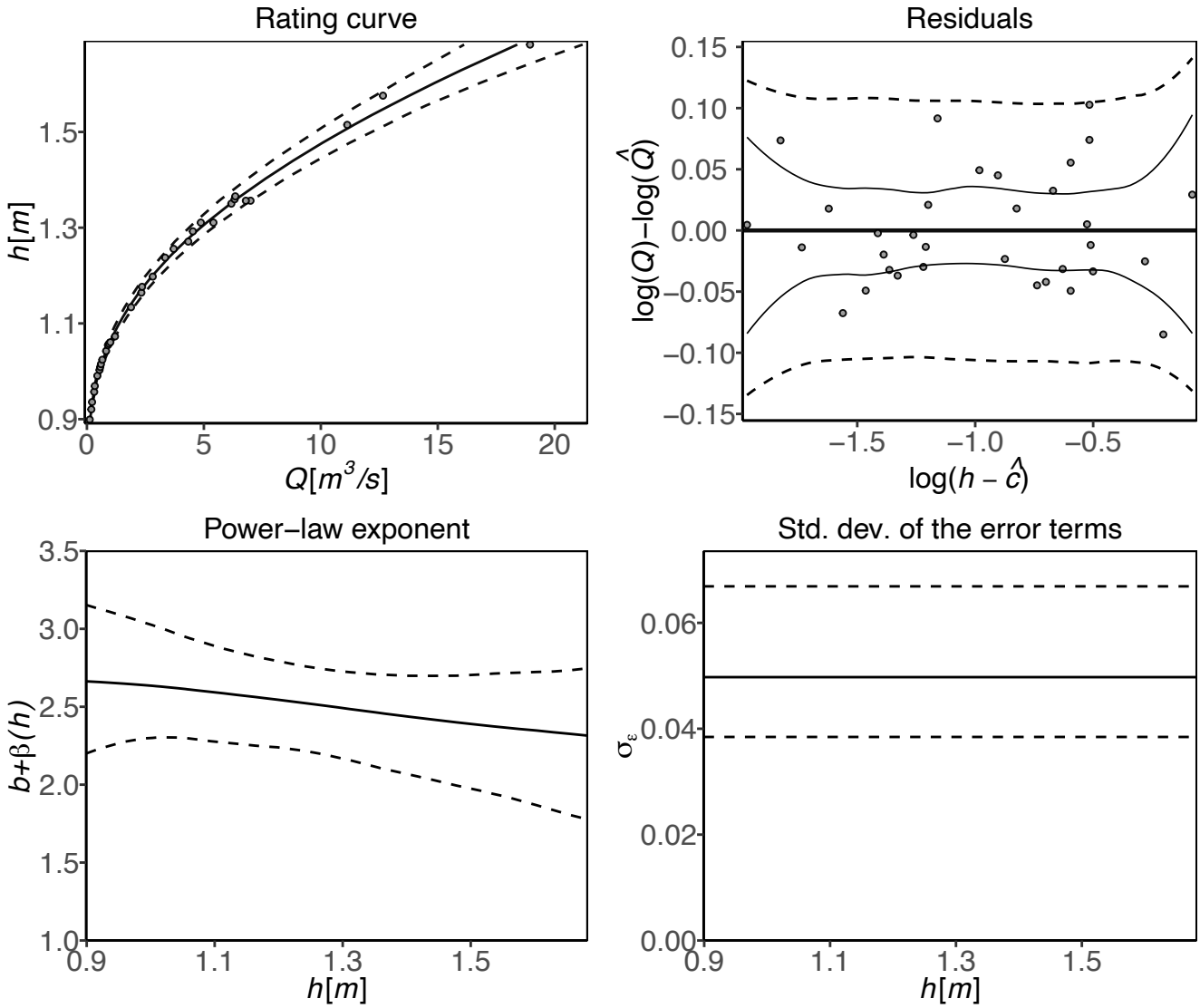


Bear, Usa – GPLM



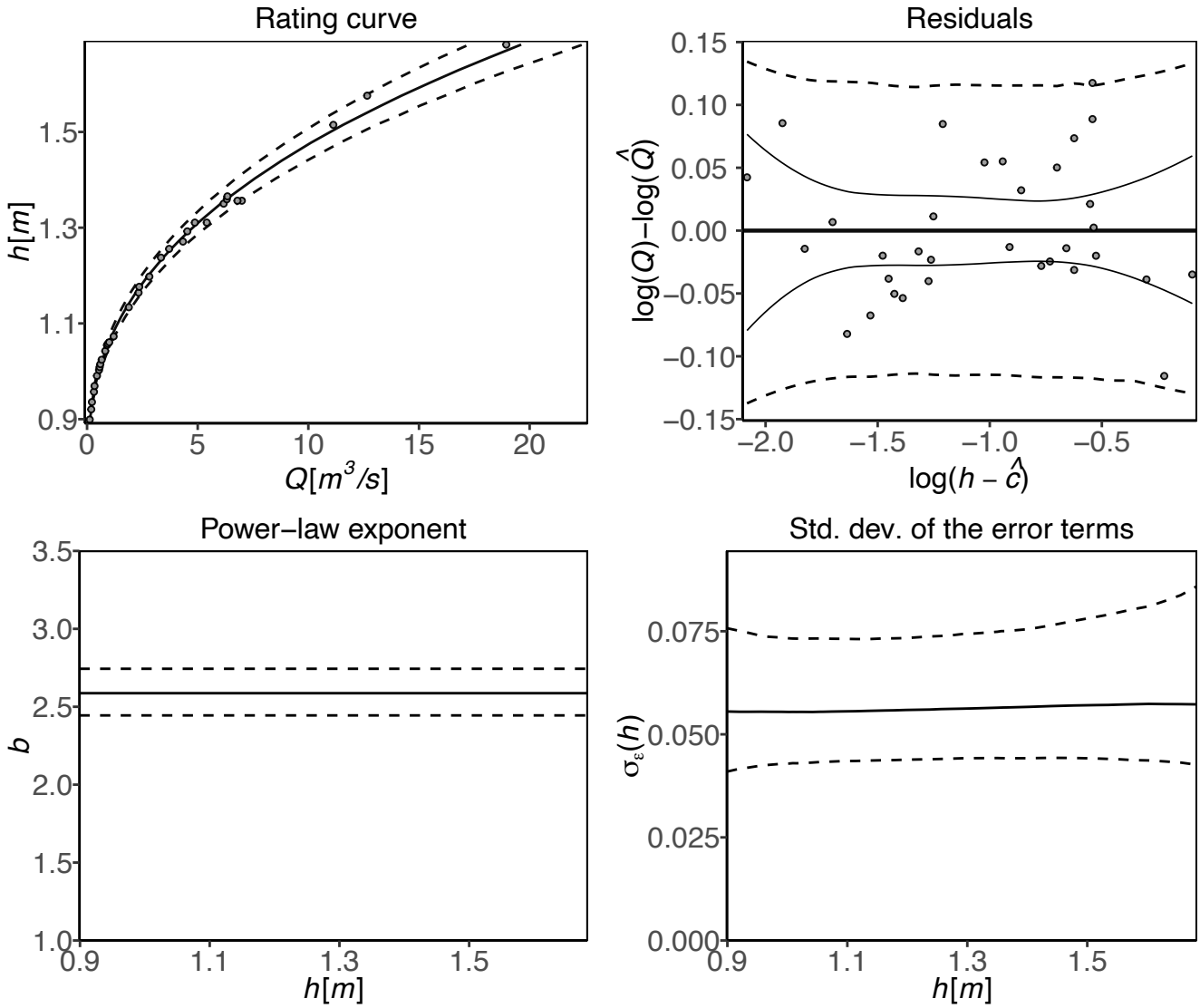
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	22.08	[18.36; 26.05]	1387	1.01
b	1.84	[1.83; 1.84]	9649	1.00
c	0.76	[0.70; 0.81]	1121	1.02
σ_β	0.52	[0.24; 1.14]	2024	1.00
ϕ_β	1.42	[0.32; 390.41]	791	1.04
σ_η	0.08	[0.00; 0.40]	1457	1.00
η_1	–6.02	[–6.68; –5.37]	1688	1.00
η_2	–6.03	[–7.85; –4.10]	2164	1.00
η_3	–5.86	[–8.37; –3.27]	2275	1.00
η_4	–5.71	[–8.85; –2.63]	2248	1.00
η_5	–5.66	[–9.29; –2.07]	2382	1.00
η_6	–5.61	[–9.73; –1.45]	2236	1.00

Bear, Usa – GPLM0



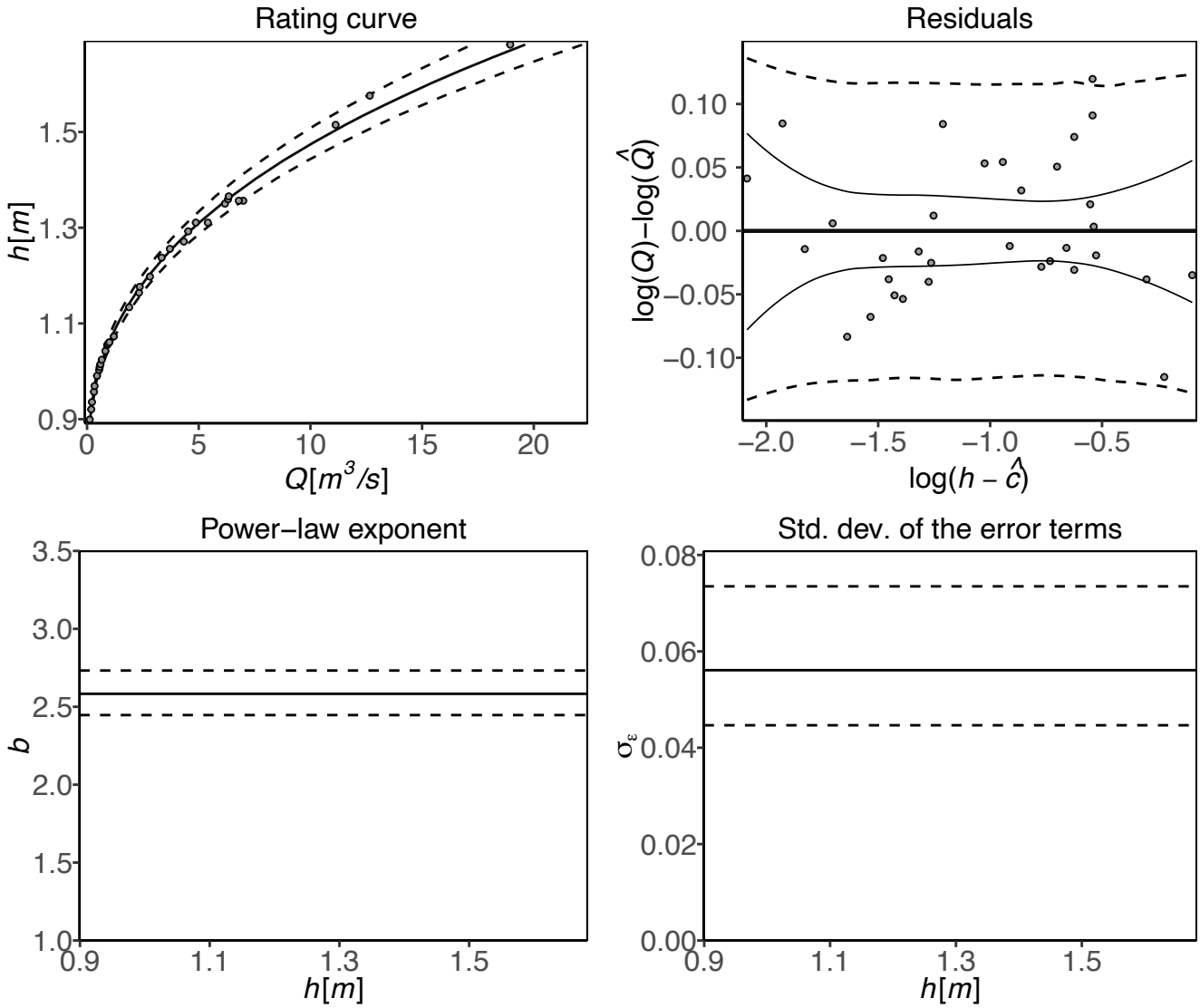
	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	21.97	[18.20; 25.87]	1999	1.00
b	1.84	[1.83; 1.84]	13018	1.00
c	0.76	[0.69; 0.81]	2009	1.00
σ_ε	0.05	[0.04; 0.07]	3543	1.00
σ_β	0.72	[0.50; 1.07]	4941	1.00
ϕ_β	1.40	[0.34; 235.95]	904	1.01

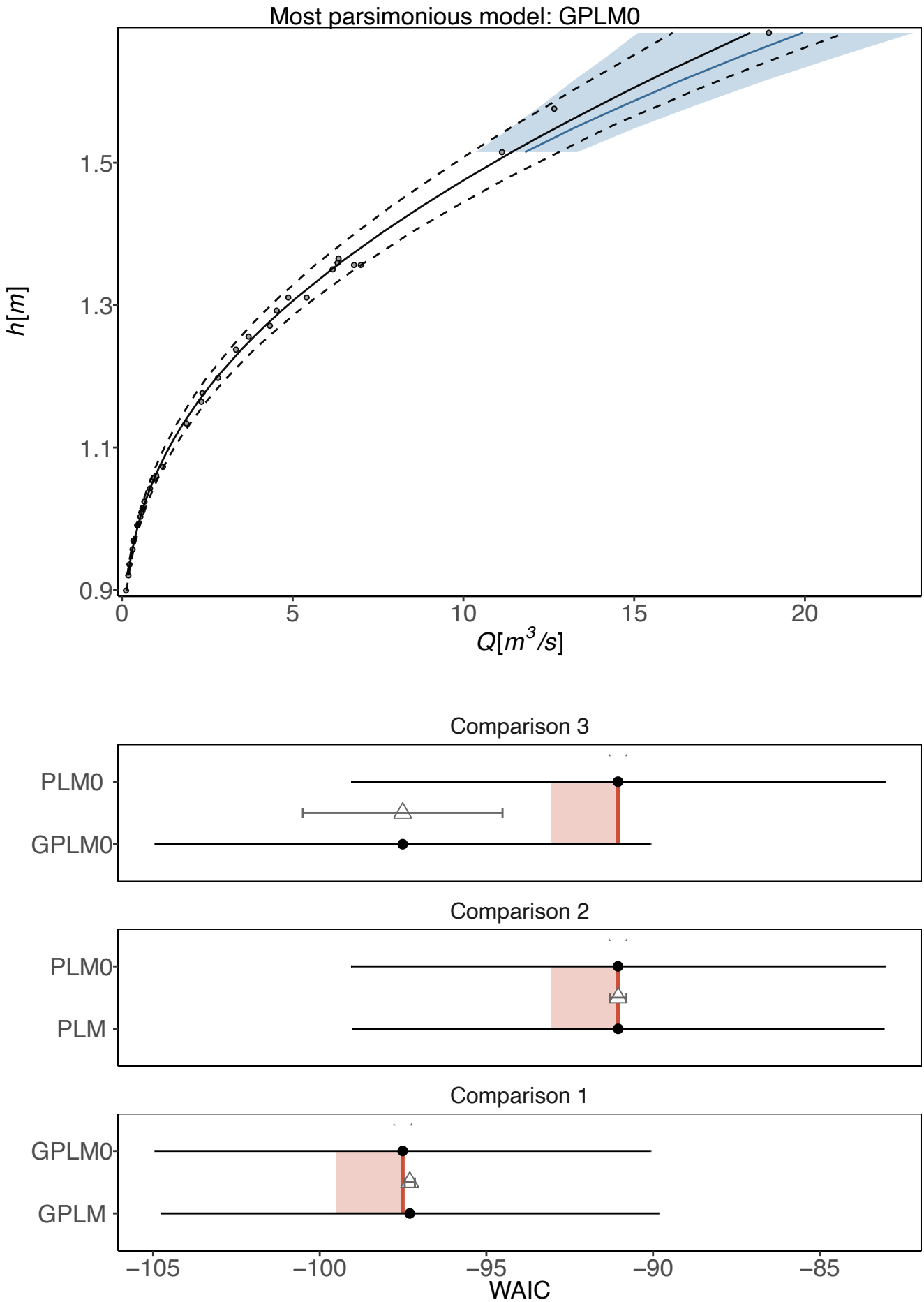
Bear, Usa – PLM



	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	25.20	[24.06; 26.38]	9367	1.00
b	2.59	[2.44; 2.74]	2560	1.00
c	0.77	[0.76; 0.79]	2413	1.00
σ_η	0.09	[0.00; 0.44]	1720	1.00
η_1	–5.78	[–6.39; –5.16]	2189	1.00
η_2	–5.78	[–7.64; –3.90]	2558	1.00
η_3	–5.70	[–8.32; –3.04]	2575	1.00
η_4	–5.49	[–8.63; –2.35]	2714	1.00
η_5	–5.35	[–9.17; –1.71]	2655	1.00
η_6	–5.34	[–9.59; –1.27]	2777	1.00

Bear, Usa – PLM0



	Posterior median	95% posterior interval	Effective number of samples	$\hat{R}$
a	25.17	[24.06; 26.29]	15502	1.00
b	2.58	[2.45; 2.73]	10318	1.00
c	0.77	[0.76; 0.79]	9804	1.00
σ_ε	0.06	[0.04; 0.07]	10243	1.00

Power−law tournament results for Bear, Usa