

1. Figures

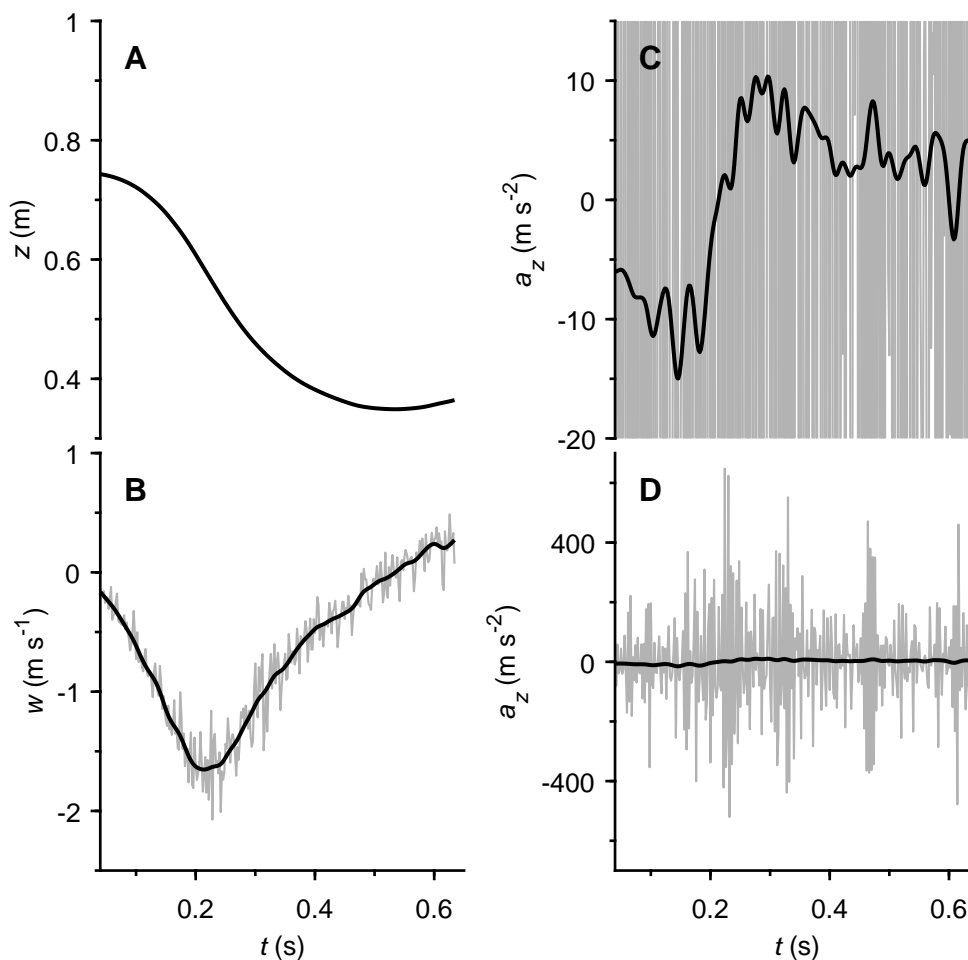


Fig. S1

Fig. S1. Kinematic parameters derived from raw and smoothed vertical position data for one loaded fall trial (trial index: 1808091348; performing individual index: 180809-4). (A) raw and smoothed vertical position data (z , Z-position after release; $t=0$, time of release); (B) vertical velocity data derived from raw and smoothed vertical position data, respectively (w , Z-velocity after release); (C) vertical acceleration data derived from raw and smoothed vertical position data, respectively, with a smaller scale of a_z (a_z , Z-acceleration after release); (D) vertical acceleration data derived from raw and smoothed vertical position data, respectively, with a larger scale of a_z . In (A) to (D), thin gray line indicates raw positional data or kinematic data obtained by differentiating the raw positional data, thick black line indicates smoothed positional data or kinematic data obtained by differentiating the smoothed positional data. In (A), two lines almost overlap completely as the two set of positional data are close to each other. In (C), a smaller scale of a_z is used to clearly illustrate the thick black line. In (D), a larger scale of a_z is used to clearly illustrate the thin gray line.

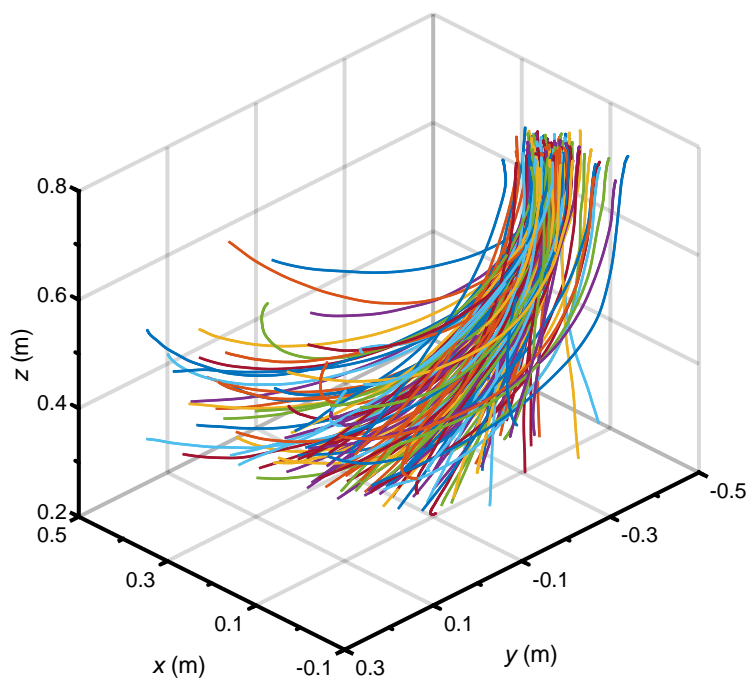


Fig. S2

Fig. S2. Three-dimensional flight trajectories tracked from 143 full-trajectory trials.

2. Tables

Table S1. Information for individual dragonflies: loading ratio (R), body mass (m_b), morphological data (l_b : body length; l_{fws} : forewing span length; l_{hws} : hindwing span length), force estimates (F_{max} and F_{max}^*), and number of QCA trials (N_{QCA}).

Individual index	R	m_b	l_b	l_{fws}	l_{hws}	F_{max} (s. e. m.)	F_{max}^* (s. e. m.)	N_{QCA}
180803-4	1.5	392	52	47	44	1.63	4.24	1
180803-5	1.5	253	53	47	44	1.19 (0.020)	4.80 (0.080)	11
180803-7	1.5	276	52	45	42	1.14 (0.020)	4.23 (0.072)	3
180804-4	1.5	352	n/a	n/a	n/a	1.40 (0.073)	4.05 (0.212)	5
180804-6	1.5	337	n/a	n/a	n/a	1.57 (0.070)	4.74 (0.213)	7
180804-7	1.5	342	n/a	n/a	n/a	1.78 (0.055)	5.31 (0.165)	5
180804-9	1.5	364	n/a	n/a	n/a	1.58 (0.025)	4.43 (0.070)	3
180804-10	1.5	386	n/a	n/a	n/a	1.53 (0.053)	4.03 (0.140)	8
180805-1	1.5	399	50	44	42	1.55 (0.037)	3.96 (0.096)	3
180805-2	1.5	390	n/a	n/a	n/a	1.81 (0.041)	4.74 (0.106)	2
180805-3	1.5	358	49	44	42.5	1.31 (0.074)	3.74 (0.211)	2
180805-4	1.5	344	50	46	44	1.47 (0.016)	4.36 (0.047)	12
180805-5	1.5	415	52	44	43	1.74 (0.043)	4.28 (0.107)	3
180805-6	1.5	364	51	42	40	1.47 (0.020)	4.12 (0.056)	10
180805-7	1.5	328	51	43	40.5	1.55 (0.077)	4.81 (0.240)	5
180805-10	1.5	224	49	43	40	0.86 (0.005)	3.93 (0.025)	4
180809-2	1.2	374	50	44	42.5	1.38(0.000)	3.77(0.127)	8
180809-4	1.8	328	48	43	40	1.50 (0.022)	4.68 (0.069)	8
180809-5	1.2	212	48	42	41	0.65(0.000)	3.12(0.020)	8
180809-7	1.5	450	50	43	41	1.89 (0.035)	4.29 (0.078)	6
180809-9	1.0	446	50	42	40.5	1.69(0.000)	3.87(0.048)	8
180809-10	1.5	423	50	42	40	1.76 (0.017)	4.25 (0.040)	2
180809-12	1.8	390	50	43	41	1.81 (0.027)	4.75 (0.071)	3
180810-1	1.8	232	49	40	38.5	1.00 (0.043)	4.40 (0.190)	3
180810-3	1.8	340	50	41	39.5	1.82 (0.052)	5.47 (0.157)	5
180810-4	1.8	264	50	42	40.5	1.21	4.66	1
180810-5	1.8	306	51	41	39.5	1.40 (0.011)	4.65 (0.037)	4
180810-7	1.8	414	51	43	40	1.53 (0.028)	3.76 (0.070)	6
180810-8	1.5	441	51	43	40	1.52	3.51	1
180810-9	1.2	443	50	42	40	1.54	3.56	1

Units: m_b , mg; l_b , l_{fws} , and l_{hws} , mm; F_{max} (s. e. m.), 10^{-2} N.

Table S2. Information for each recorded trial: categorical data, temporal data on the QCA period corresponding to the maximum force production (t_{QCA_s} : starting time; t_{QCA_e} : ending time), force estimates (F_V^* , F_H^* , F_V , F_H), time length of acceleration (T), and recovery coefficient (C_r).

Individual index	Trial index	Full-trajectory trial?	QCA trial?	t_{QCA_s}	t_{QCA_e}	F_V^*	F_H^*	F_V	F_H	T	C_r
180803-4	1808031719	no	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.322
180803-4	1808031722	no	yes	0.082	0.232	4.239	0.999	1.629	0.384	0.228	0.728
180803-5	1808031757	yes	yes	0.422	0.572	3.691	0.431	0.915	0.107	0.338	1.156
180803-5	1808031801	yes	yes	0.262	0.412	4.507	1.144	1.118	0.284	0.362	1.320
180803-5	1808031804	yes	yes	0.214	0.364	4.511	1.724	1.119	0.428	0.374	1.391
180803-5	1808031812	yes	yes	0.240	0.390	4.398	1.107	1.091	0.275	0.308	1.130
180803-5	1808031815	yes	yes	0.246	0.396	4.463	1.268	1.107	0.314	0.354	1.353
180803-5	1808031817	yes	yes	0.232	0.382	4.921	0.901	1.220	0.223	0.310	1.361
180803-5	1808031820	yes	yes	0.248	0.398	4.929	1.053	1.222	0.261	0.300	1.199
180803-5	1808031822	yes	yes	0.306	0.456	4.947	0.811	1.227	0.201	0.280	1.257
180803-5	1808031825	yes	yes	0.206	0.356	4.976	1.318	1.234	0.327	0.362	1.335
180803-5	1808031827	yes	yes	0.330	0.480	4.945	0.828	1.226	0.205	0.324	1.410
180803-5	1808031830	yes	yes	0.242	0.422	4.812	0.919	1.193	0.228	0.292	1.187
180803-7	1808031845	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.386
180803-7	1808031848	no	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.376
180803-7	1808031850	no	yes	0.002	0.152	4.325	2.334	1.170	0.631	0.152	0.640
180803-7	1808031852	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.319
180803-7	1808031855	yes	yes	0.220	0.370	4.002	2.460	1.083	0.666	0.166	0.472
180803-7	1808031857	no	yes	0.040	0.190	4.156	1.836	1.124	0.497	0.228	0.828
180803-7	1808031859	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.266
180803-7	1808031902	no	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.525
180803-7	1808031904	no	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.668

180803-7	1808031906	no	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.120
180804-4	1808041504	yes	yes	0.294	0.444	3.838	0.601	1.324	0.207	0.410	1.335	
180804-4	1808041522	no	yes	0.062	0.220	3.735	1.512	1.289	0.521	0.268	0.578	
180804-4	1808041525	no	yes	0.080	0.230	4.598	1.063	1.586	0.367	0.230	1.565	
180804-4	1808041527	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.257	
180804-4	1808041530	no	yes	0.044	0.308	3.257	1.246	1.124	0.430	0.272	0.516	
180804-4	1808041533	no	yes	0.142	0.292	3.833	1.240	1.322	0.428	0.264	0.635	
180804-6	1808041538	yes	yes	0.368	0.518	3.469	0.401	1.146	0.132	0.546	1.488	
180804-6	1808041540	yes	yes	0.180	0.330	4.902	1.301	1.619	0.430	0.358	1.474	
180804-6	1808041551	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.398	
180804-6	1808041554	yes	yes	0.232	0.390	5.282	1.023	1.745	0.338	0.396	1.411	
180804-6	1808041557	yes	yes	0.218	0.394	3.399	0.669	1.123	0.221	0.620	1.440	
180804-6	1808041600	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.091	
180804-6	1808041602	yes	yes	0.254	0.404	4.787	1.049	1.581	0.347	0.318	1.257	
180804-6	1808041606	yes	yes	0.238	0.388	4.730	1.432	1.563	0.473	0.140	0.613	
180804-6	1808041608	yes	yes	0.280	0.430	4.674	0.362	1.544	0.120	0.482	1.777	
180804-6	1808041610	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.486	
180804-7	1808041616	no	yes	0.062	0.212	4.824	2.396	1.617	0.803	0.210	0.766	
180804-7	1808041619	no	yes	0.062	0.212	4.975	1.437	1.668	0.482	0.252	0.867	
180804-7	1808041636	no	yes	0.088	0.238	4.855	2.044	1.627	0.685	0.180	0.617	
180804-7	1808041638	no	yes	0.110	0.260	5.703	1.100	1.912	0.369	0.262	1.053	
180804-7	1808041639	no	yes	0.098	0.248	5.349	0.488	1.793	0.164	0.278	1.261	
180804-9	1808041708	no	yes	0.080	0.230	4.484	1.522	1.600	0.543	0.192	0.614	
180804-9	1808041710	no	yes	0.120	0.270	4.456	0.448	1.590	0.160	0.270	1.277	
180804-9	1808041713	yes	yes	0.352	0.502	4.116	0.561	1.469	0.200	0.284	0.873	
180804-10	1808041729	yes	yes	0.326	0.476	3.761	0.640	1.423	0.242	0.400	1.058	

180804-10	1808041731	yes	yes	0.218	0.388	4.013	1.007	1.518	0.381	0.424	1.156
180804-10	1808041734	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.543
180804-10	1808041737	yes	yes	0.276	0.426	4.622	0.548	1.749	0.207	0.268	1.160
180804-10	1808041739	yes	yes	0.310	0.460	3.594	0.833	1.360	0.315	0.292	0.687
180804-10	1808041741	yes	yes	0.338	0.488	3.728	0.735	1.410	0.278	0.366	0.898
180804-10	1808041743	yes	yes	0.234	0.384	3.774	1.349	1.428	0.510	0.132	0.412
180804-10	1808041745	yes	yes	0.312	0.462	3.774	0.927	1.428	0.351	0.246	0.737
180804-10	1808041747	yes	yes	0.264	0.466	3.782	1.437	1.431	0.544	0.234	0.654
180804-10	1808041749	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.517
180805-2	1808051455	no	yes	0.088	0.238	4.823	1.466	1.844	0.560	0.166	0.712
180805-2	1808051457	no	yes	0.132	0.286	4.488	0.465	1.716	0.178	0.246	0.957
180805-2	1808051500	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.554
180805-4	1808051509	yes	yes	0.210	0.376	4.198	0.840	1.415	0.283	0.314	0.915
180805-4	1808051512	yes	yes	0.184	0.334	4.166	0.876	1.405	0.295	0.508	1.367
180805-4	1808051515	yes	yes	0.192	0.342	4.169	1.415	1.406	0.477	0.446	1.286
180805-4	1808051518	yes	yes	0.216	0.394	4.363	1.110	1.471	0.374	0.418	1.261
180805-4	1808051522	yes	yes	0.214	0.430	4.387	0.546	1.479	0.184	0.412	1.397
180805-4	1808051524	yes	yes	0.228	0.378	4.453	1.209	1.501	0.408	0.144	0.577
180805-4	1808051527	yes	yes	0.270	0.420	4.591	0.615	1.548	0.207	0.288	1.008
180805-4	1808051529	yes	yes	0.330	0.480	4.349	0.775	1.466	0.261	0.362	1.168
180805-4	1808051531	yes	yes	0.268	0.432	3.957	1.005	1.334	0.339	0.444	1.351
180805-4	1808051533	yes	yes	0.302	0.452	4.345	0.545	1.465	0.184	0.386	1.283
180805-4	1808051535	yes	yes	0.300	0.450	4.208	0.423	1.419	0.142	0.360	1.212
180805-4	1808051536	yes	yes	0.302	0.452	4.213	0.794	1.421	0.268	0.428	1.288
180805-1	1808051546	yes	yes	0.240	0.390	4.027	1.352	1.575	0.529	0.262	0.869
180805-1	1808051548	yes	yes	0.342	0.494	4.026	1.065	1.574	0.416	0.272	0.918

180805-1	1808051553	yes	yes	0.214	0.364	3.542	1.476	1.385	0.577	0.140	0.316
180805-3	1808051559	yes	yes	0.272	0.430	3.268	1.466	1.147	0.514	0.538	0.874
180805-3	1808051604	yes	yes	0.262	0.412	3.916	1.351	1.374	0.474	0.244	0.646
180805-5	1808051614	yes	yes	0.240	0.390	3.979	2.338	1.619	0.951	0.138	0.406
180805-5	1808051616	yes	yes	0.222	0.372	4.428	1.959	1.801	0.797	0.208	0.761
180805-5	1808051618	yes	yes	0.232	0.382	4.152	2.230	1.689	0.907	0.152	0.478
180805-5	1808051621	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.361
180805-6	1808051642	yes	yes	0.282	0.432	3.641	0.756	1.299	0.270	0.258	0.684
180805-6	1808051646	yes	yes	0.308	0.458	3.955	0.428	1.411	0.153	0.358	1.046
180805-6	1808051648	yes	yes	0.306	0.456	4.031	0.302	1.438	0.108	0.324	0.999
180805-6	1808051650	yes	yes	0.308	0.458	3.910	0.294	1.395	0.105	0.334	1.162
180805-6	1808051652	yes	yes	0.294	0.444	3.941	0.148	1.406	0.053	0.316	1.097
180805-6	1808051654	yes	yes	0.328	0.478	4.011	0.405	1.431	0.144	0.344	1.116
180805-6	1808051657	yes	yes	0.294	0.444	4.089	0.435	1.459	0.155	0.266	0.976
180805-6	1808051659	yes	yes	0.304	0.454	4.292	0.192	1.531	0.068	0.282	1.006
180805-6	1808051701	yes	yes	0.294	0.444	4.133	0.550	1.475	0.196	0.332	1.079
180805-6	1808051703	yes	yes	0.302	0.452	4.315	0.343	1.539	0.123	0.272	1.053
180805-7	1808051711	yes	yes	0.306	0.456	5.379	0.944	1.729	0.304	0.292	1.546
180805-7	1808051713	yes	yes	0.212	0.362	4.226	1.492	1.359	0.480	0.380	1.771
180805-7	1808051717	yes	yes	0.296	0.446	4.799	0.530	1.543	0.170	0.312	1.193
180805-7	1808051720	yes	yes	0.226	0.386	3.773	1.305	1.213	0.420	0.262	0.966
180805-7	1808051724	yes	yes	0.326	0.476	4.671	0.683	1.502	0.220	0.206	1.060
180805-10	1808051808	yes	yes	0.214	0.378	3.803	1.150	0.835	0.252	0.206	0.564
180805-10	1808051810	yes	yes	0.252	0.402	3.912	1.120	0.859	0.246	0.178	0.500
180805-10	1808051813	yes	yes	0.296	0.446	3.923	1.313	0.861	0.288	0.202	0.623
180805-10	1808051816	yes	yes	0.244	0.394	3.972	1.872	0.872	0.411	0.140	0.477

180809-4	1808091333	yes	yes	0.218	0.368	4.637	1.123	1.491	0.361	0.384	1.151
180809-4	1808091336	yes	yes	0.216	0.426	4.425	0.533	1.422	0.171	0.388	1.201
180809-4	1808091339	yes	yes	0.188	0.338	4.381	1.095	1.408	0.352	0.428	1.197
180809-4	1808091342	yes	yes	0.210	0.360	4.502	0.743	1.447	0.239	0.356	1.294
180809-4	1808091348	yes	yes	0.232	0.382	4.929	1.073	1.585	0.345	0.420	1.164
180809-4	1808091351	yes	yes	0.234	0.384	4.585	1.207	1.474	0.388	0.438	1.311
180809-4	1808091355	yes	yes	0.210	0.360	4.504	1.087	1.448	0.349	0.442	1.197
180809-4	1808091358	yes	yes	0.240	0.390	4.762	1.178	1.531	0.379	0.490	1.174
180809-2	1808091414	yes	yes	0.262	0.412	3.412	0.416	1.251	0.152	0.344	1.291
180809-2	1808091418	yes	yes	0.292	0.442	4.213	0.155	1.544	0.057	0.278	1.529
180809-2	1808091420	yes	yes	0.320	0.470	4.005	0.383	1.468	0.140	0.294	1.753
180809-2	1808091422	yes	yes	0.230	0.380	3.746	0.511	1.373	0.187	0.344	1.738
180809-2	1808091425	yes	yes	0.264	0.414	3.315	0.395	1.215	0.145	0.342	1.477
180809-2	1808091430	yes	yes	0.402	0.564	3.246	0.107	1.190	0.039	0.330	1.003
180809-2	1808091432	yes	yes	0.276	0.426	3.487	0.333	1.278	0.122	0.426	1.382
180809-2	1808091434	yes	yes	0.336	0.520	3.456	0.172	1.267	0.063	0.336	1.029
180809-5	1808091443	yes	yes	0.380	0.530	3.118	0.616	0.648	0.128	0.390	1.022
180809-5	1808091446	yes	yes	0.334	0.484	3.127	0.556	0.650	0.116	0.348	0.862
180809-5	1808091449	yes	yes	0.210	0.360	3.035	0.997	0.631	0.207	0.378	0.883
180809-5	1808091451	yes	yes	0.318	0.468	3.185	0.587	0.662	0.122	0.322	1.004
180809-5	1808091453	yes	yes	0.298	0.486	3.109	0.503	0.646	0.105	0.272	0.749
180809-5	1808091455	yes	yes	0.324	0.474	3.126	0.452	0.649	0.094	0.294	0.769
180809-5	1808091457	yes	yes	0.292	0.442	2.894	1.332	0.601	0.277	0.208	0.453
180809-5	1808091459	yes	yes	0.306	0.456	3.118	0.046	0.648	0.009	0.318	0.759
180809-7	1808091503	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.175
180809-7	1808091505	yes	yes	0.276	0.426	4.497	0.637	1.983	0.281	0.270	1.064

180809-7	1808091508	yes	yes	0.292	0.442	4.117	1.340	1.816	0.591	0.226	0.797
180809-7	1808091510	yes	yes	0.302	0.452	4.373	0.644	1.929	0.284	0.222	0.871
180809-7	1808091517	yes	yes	0.266	0.416	3.991	2.536	1.761	1.118	0.148	0.465
180809-7	1808091519	yes	yes	0.290	0.440	4.079	1.673	1.799	0.738	0.190	0.573
180809-7	1808091521	yes	yes	0.264	0.414	4.130	1.281	1.822	0.565	0.250	0.838
180809-12	1808091600	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.176
180809-12	1808091602	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.206
180809-12	1808091604	no	yes	0.104	0.254	4.553	0.895	1.740	0.342	0.242	0.609
180809-12	1808091606	no	yes	0.110	0.260	4.660	0.549	1.781	0.210	0.296	0.785
180809-12	1808091608	no	yes	0.104	0.254	4.848	1.143	1.853	0.437	0.238	0.673
180809-9	1808091613	yes	yes	0.278	0.428	3.637	0.893	1.590	0.390	0.330	1.420
180809-9	1808091617	yes	yes	0.278	0.428	3.770	0.670	1.648	0.293	0.330	1.522
180809-9	1808091620	yes	yes	0.318	0.468	3.765	0.843	1.646	0.368	0.236	1.002
180809-9	1808091623	yes	yes	0.272	0.450	3.693	0.625	1.614	0.273	0.302	1.550
180809-9	1808091625	yes	yes	0.292	0.442	3.894	0.875	1.702	0.383	0.214	1.033
180809-9	1808091627	yes	yes	0.304	0.454	4.045	0.607	1.768	0.265	0.316	1.555
180809-9	1808091630	yes	yes	0.302	0.452	3.886	0.638	1.699	0.279	0.218	1.080
180809-9	1808091634	yes	yes	0.296	0.446	3.769	0.743	1.647	0.325	0.242	1.150
180809-10	1808091636	no	yes	0.100	0.274	4.156	1.384	1.723	0.574	0.240	0.665
180809-10	1808091639	no	yes	0.110	0.260	4.285	1.208	1.777	0.501	0.214	0.695
180810-5	1808101503	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.356
180810-5	1808101510	no	yes	0.168	0.318	4.509	0.357	1.352	0.107	0.364	1.164
180810-5	1808101513	yes	yes	0.216	0.366	4.718	1.554	1.415	0.466	0.158	0.550
180810-5	1808101516	yes	yes	0.238	0.388	4.576	1.668	1.372	0.500	0.188	0.657
180810-5	1808101518	yes	yes	0.288	0.438	4.658	1.499	1.397	0.449	0.216	0.684
180810-1	1808101533	yes	yes	0.244	0.394	4.448	1.367	1.011	0.311	0.198	0.661

180810-1	1808101537	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.446
180810-1	1808101541	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.417
180810-1	1808101543	yes	yes	0.204	0.354	3.631	2.028	0.826	0.461	0.134	0.191
180810-1	1808101545	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.253
180810-1	1808101547	no	yes	0.128	0.278	4.590	0.987	1.044	0.224	0.306	0.714
180810-3	1808101604	no	yes	0.148	0.298	5.811	1.173	1.936	0.391	0.264	0.962
180810-3	1808101607	no	yes	0.160	0.310	5.480	1.108	1.826	0.369	0.334	0.942
180810-3	1808101610	no	yes	0.056	0.206	5.277	0.601	1.759	0.200	0.276	1.290
180810-3	1808101612	yes	yes	0.310	0.460	4.506	0.840	1.502	0.280	0.306	0.917
180810-3	1808101616	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.253
180810-3	1808101618	no	yes	0.154	0.304	5.375	0.551	1.791	0.184	0.308	1.171
180810-3	1808101625	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.203
180810-3	1808101627	no	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.623
180810-3	1808101629	no	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.476
180810-4	1808101632	yes	yes	0.296	0.446	4.659	0.920	1.206	0.238	0.350	1.202
180810-7	1808101650	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.153
180810-7	1808101653	yes	yes	0.262	0.422	3.742	0.730	1.518	0.296	0.190	0.387
180810-7	1808101655	yes	yes	0.234	0.384	3.961	1.462	1.607	0.593	0.196	0.445
180810-7	1808101657	yes	yes	0.232	0.422	3.650	1.120	1.481	0.455	0.184	0.370
180810-7	1808101700	yes	yes	0.242	0.392	3.570	1.397	1.449	0.567	0.230	0.391
180810-7	1808101703	yes	yes	0.226	0.422	3.756	0.963	1.524	0.391	0.212	0.414
180810-7	1808101705	yes	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.340
180810-7	1808101708	no	no	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.371
180810-7	1808101709	yes	yes	0.262	0.412	3.422	0.913	1.389	0.370	0.192	0.225
180810-9	1808101721	yes	yes	0.320	0.470	3.558	0.323	1.545	0.140	0.306	1.089
180810-8	1808101730	yes	yes	0.304	0.454	3.509	1.653	1.517	0.715	0.138	0.345

Units: t_{QCA_s} , t_{QCA_e} , and T , s; F_V and F_H , 10^{-2} N.

3. Movies



Movie 1. Raw video from one camera view for one loaded fall trial (trial index: 1808091348; performing individual index: 180809-4).



Movie 2. Raw video from the other camera view for one loaded fall trial (trial index: 1808091348; performing individual index: 180809-4).