

Nautilus number	Jet mode (1 or 2)	Swim	Date	Jet period start frame	Jet period end frame	Total frames	Jet period (s)	Cycle frequency (Hz)	Frame rate (fps)	Mantle Length (cm)	Max Jet orifice area est. (cm2)	Max refill orifice area est. (cm2)	Jet angle (degrees)	Nautilus angle	Swim distance over 1 jet (cm)	Jet Length (cm) (vorticity profile)	Jet Diameter (cm) (vorticity profile)	Jet Length (cm) (mean)	Jet Diameter (cm) (mean)	Peak Jet Vorticity 1/s	Mean peak jet vorticity 1/s	Time averaged Peak jet velocity (cm/s)	Mean Peak jet velocity (cm/s)	Time averaged peak refill (cm/s)	Jet Area est. (cm2)
1	1	5	05/08/2015	217	467	250	1	1	500	7.7063	0.27	2.704	10.62		5.1173	2.4698	1.733	6.3278	3.07	7.5167	3.751	6.3597	3.741	1.42869	7.403259
2	1	4	19/5/2015	3	197	194	0.776	1.28866	500	10.97	0.76	5.54	25.5		6.018	2.1301	1.6343	5.6992	1.9849	10.47	4.146	4.5322	2.666	1.396721	3.094735
2	1	3	19/5/2015	348	546	198	0.792	1.262626	500	10.97	0.76	5.54	19.094		5.8835	2.2283	1.4624	7.455	2.3285	5.976	3.768	5.7664	3.392	1.779172	4.258912
2	1	3	19/5/2015	547	751	204	0.816	1.22549	500	10.97	0.76	5.54	16.587		6.4346	1.5297	1.375	4.9922	2.6141	6.0134	3.009	7.4035	4.355	2.28514	5.367729
4	1	2	27/5/2015	186	396	210	0.84	1.190476	500	9.2129	0.34	3.718	15.676		4.0506	1.7956	1.6647	3.3214	3.7755	4.821	2.423	4.2819	2.107	0.875645	11.19683
4	1	1	28/5/2015	151	333	182	0.728	1.373626	500	9.2129	0.34	3.718	23.945		5.3595	3.5822	2.8889	9.8955	3.167	12.8566	4.242	7.1984	4.352	1.479661	7.878478
2	2	2	20/5/2015	103	308	205	0.82	1.219512	500	10.97	0.76	5.54	16.7		9.4959	3.9904	1.1787	7.6292	4.1989	25.018	4.646	13.48035	6.913	4.160502	13.84896
2	2	1	27/5/2015	310	546	236	0.944	1.059322	500	10.97	0.76	5.54	10.784		7.0718	6.4552	1.5675	6.132	2.22887	9.0752	3.877	6.72165	3.447	2.06962	3.902255
2	2	4	28/05/2015	324	530	206	0.824	1.213592	500	10.97	0.76	5.54	5.089		4.2596	7.0194	2.1337	3.7392	2.4335	6.3201	4.147	5.16555	2.649	1.590875	4.65167
4	2	3	19/5/2015	224	434	210	0.84	1.190476	500	9.2129	0.34	3.718	31.974		4.9569	7.8677	1.8759	3.5625	2.4197	5.3341	1.459	3.5139	1.802	0.721856	4.599062
4	2	1	28/5/2015	334	526	192	0.768	1.302083	500	9.2129	0.34	3.718	20.737		5.9715	6.3059	1.8408	6.573	2.6439	12.6835	4.379	11.4348	5.864	2.34589	5.490808
4	2	2	28/5/2015	279	462	183	0.732	1.36612	500	9.2129	0.34	3.718	32.471		6.6183	7.6978	2.202	6.5111	2.5547	13.1687	5.954	10.8576	5.568	2.233265	5.12656
4	2	1	20/5/2015	114	265	151	0.604	1.655629	500	9.2129	0.34	3.718	20.225		5.3847	7.648	1.5616	8.0345	3.1242	26.19	6.618	18.53475	9.505	3.811749	7.666971
4	2	1	20/5/2015	266	438	172	0.688	1.453488	500	9.2129	0.34	3.718	8.531		7.5379	8.291	1.5055	7.3754	2.4698	22.79	7.412	16.56135	8.493	3.407477	4.791481
4	2	2	20/5/2015	47	241	194	0.776	1.28866	500	9.2129	0.34	3.718	19.736		6.8218	6.7038	1.8754	7.0164	2.4533	14.5	5.08	12.44685	6.383	2.56082	4.727674

Jet Length/diameter	Average Thrust (N)	Average Thrust (mN)	Formation number (Bartol)	Time averaged body velocity (cm/s)	Time averaged body velocity (BL/s)	Whole cycle efficiency	Slip	Re	Drag	Jet period start frame	Jet period end frame	Total frames	Jet period (s)	Swim distance during contraction (cm)	Time averaged body velocity (cm/s)	Time averaged body velocity (BL/s)	Jet period start frame	Jet period end frame	Total frames	Jet period (s)	Swim distance during expansion (cm)	Time averaged body velocity (cm/s)	Distance during shortening %	Duty cycle %
1.425159	0.000112	0.112152	1.425159	5.1173	0.664041	0.48709	1.221497	3514.899	0.514836	217	338	121	0.484	2.2926	4.736777	0.614663	339	467	128	0.512	2.8247	5.516992	55.19903	48.59438
1.303371	0.00016	0.160325	1.303371	7.755155	0.706942	0.620797	0.527481	7582.687	1.581028	3	111	108	0.432	3.1035	7.184028	0.654879	112	197	85	0.34	2.9145	8.572059	48.42971	55.95855
1.523728	0.00026	0.259534	1.523728	7.428662	0.67718	0.716227	0.733531	7263.455	1.514467	328	443	115	0.46	3.1838	6.921304	0.63093	444	546	102	0.408	2.6997	6.616912	45.88595	52.99539
1.112509	0.000428	0.427817	1.112509	7.885539	0.718828	0.777929	0.899802	7710.172	1.60761	547	647	100	0.4	3.1417	7.85425	0.715975	648	751	103	0.412	3.2929	7.992476	51.1749	49.26108
1.078633	6.4E-05	0.064021	1.078633	4.822143	0.523412	0.667913	0.854938	3959.702	0.693376	186	315	129	0.516	2.4257	4.700969	0.510259	316	396	80	0.32	1.6249	5.077813	40.11504	61.72249
1.239988	0.000181	0.180934	1.239988	7.361951	0.799092	0.774112	0.893632	6045.264	1.058575	151	233	82	0.328	2.4476	7.462195	0.809972	234	333	99	0.396	2.9119	7.353283	54.33156	45.30387
3.385425	0.001418	1.41836	3.385425	11.58037	1.05564	0.856716	1.114972	11322.83	2.360867	103	202	99	0.396	4.0315	10.18056	0.928036	203	308	105	0.42	5.4644	13.01048	57.54484	48.52941
4.11815	0.000353	0.352643	4.11815	7.491314	0.682891	0.758661	0.881413	7324.713	1.52724	310	445	135	0.54	3.4545	6.397222	0.583156	446	546	100	0.4	3.6173	9.04325	51.15105	57.44681
3.289778	0.000208	0.208265	3.289778	5.169417	0.471232	0.711092	0.995313	5054.454	1.053879	324	441	117	0.468	1.8551	5.210955	0.475019	442	530	88	0.352	2.4045	6.830966	56.44896	57.07317
4.194094	4.31E-05	0.043115	4.194094	5.901071	0.640523	0.57648	0.505129	4845.664	0.848515	224	341	117	0.468	2.5127	5.369017	0.582772	342	434	92	0.368	2.4442	6.641848	49.30904	55.98086
3.42563	0.000457	0.456569	3.42563	7.775391	0.843968	0.794379	1.375365	6384.76	1.118023	334	414	80	0.32	2.6237	8.199063	0.889955	415	526	111	0.444	3.3478	7.54009	56.06297	41.88482
3.495822	0.000412	0.411639	3.495822	9.041393	0.981384	0.826382	1.013136	7424.338	1.300062	279	375	96	0.384	3.2358	8.426563	0.914648	376	462	86	0.344	3.3825	9.832849	51.10829	52.74725
4.897541	0.0012	1.199562	4.897541	8.915066	0.967672	0.717749	1.950848	7320.605	1.281897	114	184	70	0.28	2.3186	8.280714	0.898817	185	265	80	0.32	3.0661	9.581563	56.94096	46.66667
5.50714	0.000958	0.957725	5.50714	10.95625	1.189229	0.824202	1.494865	8996.722	1.575399	266	350	84	0.336	3.738	11.125	1.207546	351	438	87	0.348	3.7999	10.91925	50.41059	49.12281
3.574597	0.000541	0.540964	3.574597	8.790979	0.954203	0.813215	1.332696	7218.711	1.264055	47	146	99	0.396	3.4827	8.794697	0.954607	147	241	94	0.376	3.3391	8.880585	48.94749	51.29534