

A TOPIC INDEX
FOR
ODONATOLOGICAL ABSTRACTS 1-4225
FROM
ODONATOLOGICA VOLUMES 1-12

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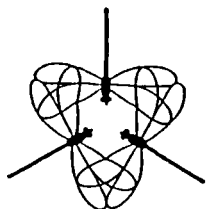
Authors' addresses:

(P.S.C. & C.M.S.)
Department of Biological Sciences
The University
Dundee, DD1 4HN, U n i t e d K i n g d o m

(J.E.H.)
Plasma Physics Library
Princeton University
Princeton
New Jersey 08544, U n i t e d S t a t e s o f A m e r i c a

and

(B.K.)
Department of Animal Cytogenetics and Cytotaxonomy
State University of Utrecht
Padualaan 8
Utrecht 2506, T h e N e t h e r l a n d s



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**A TOPIC INDEX FOR
ODONATOLOGICAL ABSTRACTS 1 - 4225
FROM
ODONATOLOGICA VOLUMES 1 - 12**

**Philip S. Corbet
C. M. Scrimgeour
Jane E. Holmquist
B. Kiauta**

Utrecht
1984

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PREFACE

At the end of each number of the periodical *Odonatologica* are abstracts of publications or other items that refer to Odonata and that have not been published in *Odonatologica*. These abstracts, known as 'Odonatological Abstracts' (abbreviated 'OA') range from unamplified bibliographical citations to detailed critical reviews, and they constitute a valuable literature source. Our aim in this topic index, as in the companion index to authors, is to make more accessible to odonatologists the Odonatological Abstracts in Volumes 1-12 of *Odonatologica*.

This topic index reflects my interest in ecology and behaviour. It was compiled to make easier the preparation of a review article (*Annual Review of Entomology* 25 (1980): 189-217) and later a revised edition of my book *A biology of dragonflies* (Witherby 1962; Quadrangle Press 1963; Classey 1983). The main topics (1-9), and their classification, correspond closely to the content of *A biology of dragonflies*; two others (0 and 10) have been added to accommodate the broader scope of Odonatological Abstracts, but neither of these is treated in as much detail as are the main topics. For odonatologists with interests other than mine, this index may provide points of departure in their search for relevant titles.

Topics have been classified under major categories (0-10) all but the first and last of which correspond exactly to chapters in *A biology of dragonflies*. Within each major category, topics are numbered (1.0, 1.1, 1.2 ...) in a sequence that is alphabetical except for a few topics added at the end, and except for categories 7 and 9. In the main text, topics are likewise arranged in numerical order, each being followed by a list of related topics (to facilitate cross-reference) and by the appropriate OA numbers. It will be seen that some topics have no OA number assigned to them (e.g. 5.27), and that some topic numbers lack a designation (e.g. 7.47). Such entries serve no function: they remain in the index only because it is awkward to remove them.

Although I have tried to be systematic and consistent when assigning abstracts to topics over the seven years during which the index was compiled, I am sure that inconsistencies exist - with respect to the extent of coverage and to the assignment of abstracts to topics. I hope that difficulties caused by overlap between topics will be mitigated by the listing of related topics after each topic designation. I may well have overlooked, and therefore not listed, some topics in abstracts of some publications, especially those that contain a wide range of subjects. To say this emphasises that the index can serve as a guide, but not as a comprehensive concordance, to topics represented in Odonatological Abstracts.

Not infrequently an OA entry records only the contents of a serial or periodical, giving authors and titles of contributions but no more than this. Such entries are listed here only under the designation '0.10', which includes contents of journals. Thus no attempt has been made to infer from the titles, or to incorporate in the index, topics from papers so listed.

Appendix I lists topics in numerical order.

Appendix II shows where abstracts appear in the volumes of *Odonatologica* to which this index refers.

Philip S. Corbet

October 1984

Department of Biological Sciences,
The University,
Dundee, U.K.

TOPIC INDEX

0. GENERAL AND MISCELLANEOUS

0.0 General (see also: 0.11)

6	331	340	565	567	569	777	850
1143	1874	2050					

0.1 Bibliographies

231	396	905	1020	1621	1861	1894	2008
2115	2136	2288	2349	2364	2389	2539	2554
2573	2655	2761	2913	2940	3025	3048	3201
3212	3338	3428	3441	3498	3585	3586	3635
3664	3688	3729	3882	3901	3909	4037	

0.2 Catalogues; checklists (see also: 9.4)

41	65	67	79	86	105	121	126
144	180	185	210	217	252	255	259
292	296	316	344	366	368	392	394
396	400	408	410	414	418	438	460
469	488	499	522	537	551	556	618
627	628	647	683	691	731	735	742
788	810	826	857	866	887	894	897
901	929	945	973	974	1000	1007	1020
1057	1061	1073	1082	1095	1099	1124	1125
1144	1148	1159	1168	1178	1193	1225	1254
1258	1269	1277	1333	1376	1409	1419	1455
1463	1501	1504	1509	1518	1520	1532	1545
1599	1600	1620	1624	1634	1639	1643	1660
1661	1675	1685	1689	1702	1713	1750	1751
1757	1780	1790	1807	1886	1887	1901	1911
1918	1954	1960	1964	1967	1982	2003	2016
2027	2043	2099	2100	2110	2132	2152	2157
2174	2186	2188	2189	2190	2196	2227	2230
2241	2255	2278	2279	2281	2283	2342	2349
2352	2426	2439	2444	2493	2495	2496	2562
2584	2599	2622	2628	2644	2646	2657	2698
2717	2728	2737	2750	2770	2775	2784	2804
2806	2807	2836	2853	2856	2877	2882	2889
2913	2923	2928	2933	2940	2951	2952	2985
2991	3001	3018	3032	3033	3048	3049	3065
3073	3078	3081	3087	3091	3109	3116	3140
3141	3143	3151	3164	3168	3200	3201	3212
3217	3221	3223	3227	3235	3238	3247	3272
3273	3307	3322	3366	3401	3407	3413	3414
3419	3448	3457	3477	3534	3561	3583	3585
3586	3589	3590	3599	3606	3609	3611	3620

3632	3721	3725	3727	3728	3741	3808	3823
3842	3844	3853	3854	3867	3879	3915	3937
3981	4056	4059	4062	4073	4074	4125	4129
4132	4169	4170	4205	4206	4207		

0.3 Common names (see also : 0.4, 5.14)

48	258	745	746	1016	1064	1085	1206
1702	1713	1915	1962	2388	2420	2459	2509
2538	2541	2763	2799	2867	2870	2871	2935
2940	3001	3023	3072	3073	3128	3174	3242
3339	3482	3530	3557	3661	3693	3694	3805
3806	3809	4036	4047	4049	4212	4213	

0.4 Folklore (see also: 0.3, 5.14)

42	118	462	745	851	1303	1778	1847
1870	2270	2306	2763	2867	2870	2871	3072
3242	3495	3975	4031	4032	4109		

0.5 General works on the biology of Odonata: popular

25	31	35	36	48	110	120	131
196	229	234	239	240	283	474	478
518	523	550	566	583	586	587	606
642	701	822	874	875	1062	1171	1195
1228	1286	1311	1331	1399	1415	1418	1421
1422	1471	1517	1530	1539	1540	1541	1563
1564	1592	1612	1616	1617	1638	1708	1716
1740	1742	1752	1753	1758	1809	1815	1830
1837	1840	1854	1858	1880	1902	1915	1934
1946	2020	2067	2072	2075	2078	2085	2121
2124	2129	2137	2138	2141	2143	2161	2175
2201	2211	2219	2223	2270	2287	2353	2367
2391	2420	2431	2503	2514	2560	2562	2565
2571	2577	2600	2642	2676	2686	2687	2702
2703	2748	2752	2849	2914	2964	2968	3015
3023	3067	3103	3156	3161	3191	3265	3283
3286	3337	3351	3397	3409	3433	3434	3455
3465	3514	3517	3519	3537	3665	3668	3696
3746	3766	3772	3884	3892	3907	3934	3940
3943	3963	3965	3978	3989	4006	4026	4046
4047	4121	4189	4198	4200	4225		

0.6 General works on the biology of Odonata: scientific
(see also: 0.8)

5	473	575	582	616	653	869	889
1199	1287	1490	1506	1684	1709	1710	1726
1754	1865	1926	2171	2243	2264	2265	2266
2470	2649	2768	2779	2915	3050	3092	3464
3516	3680	3681	3796	3852	3910	4001	4044
4061	4101						

0.7 History of odonatology (see also: 0.10)

77	78	86	233	235	476	482	486
487	775	909	1002	1249	1615	1770	1862
1978	2362	2419	2607	2921	2995	3016	3212
3484	3694	3749	3819	3937	3983		

0.8 Identification manuals; guides; handbooks (see also: 0.6)

188	550	597	692	728	738	786	853
1041	1091	1175	1189	1194	1266	1314	1335
1380	1384	1396	1482	1489	1777	1802	1833
1843	1844	1853	1896	1922	1963	1990	2026
2029	2031	2035	2055	2061	2062	2088	2105
2209	2239	2274	2290	2323	2325	2327	2386
2387	2419	2432	2459	2500	2516	2557	2564
2591	2618	2633	2644	2655	2756	2777	2821
2824	2849	2869	2883	2911	2924	2951	2952
2961	2976	2980	2983	2997	3033	3054	3073
3128	3217	3221	3300	3314	3321	3398	3399
3526	3553	3584	3671	3676	3734	3837	3878
3949	3960	3984	4025	4044	4061	4101	4184
4215							

0.9 Literature surveys; services; distribution maps; museums

74	307	317	368	392	419	559	809
810	897	1005	1114	1300	1528	1561	2361
2417	2426	2497	2713	2789	2831	2916	2921
2985	3032	3033	3124	3134	3143	3185	3216
3366	3623	3659	3660	3750	3779	4221	

0.10 Meetings; colloquia; societies; journals (see also: 0.7)

2	20	91	116	137	140	158	171
181	189	191	193	194	227	228	236
238	300	301	307	319	332	341	361
398	412	430	512	513	530	531	532
575	655	659	689	702	765	808	867
898	944	950	967	1047	1084	1113	1116
1142	1152	1154	1165	1166	1187	1241	1274
1299	1344	1366	1368	1370	1395	1397	1423
1424	1431	1459	1475	1478	1523	1605	1613
1655	1712	1735	1736	1743	1768	1793	1794
1798	1799	1803	1817	1821	1884	1970	1986
2017	2049	2051	2117	2194	2202	2210	2213
2220	2228	2232	2235	2236	2237	2341	2351
2363	2371	2383	2384	2417	2464	2473	2484
2491	2526	2548	2549	2558	2574	2576	2625
2651	2652	2669	2671	2688	2706	2739	2791
2812	2814	2841	2848	2852	2858	2876	3013

3035	3044	3046	3190	3191	3214	3230	3233
3237	3258	3303	3310	3315	3316	3322	3332
3358	3399	3400	3409	3412	3419	3421	3423
3436	3437	3450	3455	3458	3514	3515	3537
3538	3544	3558	3563	3571	3595	3596	3667
3675	3679	3683	3687	3722	3751	3767	3782
3857	3886	3895	3969	3972	3990	4000	4004
4005	4090	4097	4102	4105	4108	4116	4151
4176	4185	4191	4204	4211			

0.11 Miscellaneous (see also: 0.0)

1177	1291	1733	1989	2942	3870	3880	3893
3907	3941	4133					

0.12 Nomenclature (see also: 9.5)

30	61	1163	2924	3758
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0.13 Obituaries (see also: 0.15)

420	435	616	726	1357	1407	1522	1706
1906	1907	2057	2118	2172	2324	2442	2474
2761	2998	3126	3262	3316	3463	3510	3520
3566	3567	3607	3783	3902	3935	4071	4082
4089	4141	4214					

0.14 Ornaments; art; food; exhibitions (see also: 0.4, 5.14)

156	187	262	287	511	554	562	573
578	719	890	1089	1160	1294	1564	1637
1690	1836	1874	1919	1980	2193	2249	2270
2280	2316	2547	2563	2669	2671	2686	2687
2829	2830	2953	2982	3015	3022	3086	3264
3420	3447	3694	3770	3779	3877	3947	3979
4088	4139						

0.15 Personalia; lists of odonatologists (see also: 0.13)

213	242	243	413	536	542	813	846
891	981	983	1006	1064	1121	1701	1717
1852	1930	1944	1945	2048	2054	2142	2144
2145	2147	2159	2164	2199	2238	2244	2248
2275	2277	2344	2485	2520	2539	2551	2621
2651	2652	2785	2920	2921	2963	2968	2987
3029	3098	3111	3152	3164	3206	3330	3357
3381	3591	3687	3819	3905	3975	4013	4180
4199	4219						

0.16 Reviews

479	484	791	792	815	859	1004	1147
1169	1194	1232	1248	1266	1301	1473	1474
1492	1548	1571	1668	1764	1765	1766	1767
1769	1771	1772	1775	1784	1787	1795	1796
1797	1838	1938	2030	2038	2040	2042	2046
2047	2052	2118	2134	2216	2221	2337	2348
2395	2466	2475	2526	2534	2547	2557	2563
2747	2771	2811	2812	2950	3187	3287	3595
3596	3723	3738	3836	3841	4063	4094	4099
4124	4194	4221					

0.17 Techniques; methods:- chromosomes (see also: 9.7)

No entries

0.18 Techniques; methods:- colour preservation (see also: 5.6)

537	1186	1486	1556	1630	1899	1955	2263
2334	2553	2842	3284	3962			

0.19 Techniques; methods:- curation

112	1070	1101	1122	1186	1439	2169	2292
2745	2767	2822	3085	3146	3266		

0.20 Techniques; methods:- estimation of numbers (see also: 5.22)

162 207

0.21 Techniques; methods:- field methods; collecting

26	33	37	208	216	237	241	376
819	855	1025	1101	1186	1197	1657	1755
1779	1822	1903	1939	2019	2181	2300	2471
2481	2531	2842	2879	3033	3176	3278	3390
3402	3415	3565	3698	3814	3815	3873	4172

0.22 Techniques; methods:- laboratory methods

607	716	1745	1903	1904	2163	2166	2365
2366	3719	3803	4008				

0.23 Techniques; methods:- marking

162	205	971	2380	2816	3123	3541	3814
4053							

0.24 Techniques; methods:- photography

2036	2121	2293	2357	2407	2510	2963	3265
3415	4152						

0.25 Techniques; methods:- rearing; colonisation

426	819	1261	1554	1653	1953	2076	2604
3375	3390	3415					

0.26 Terminology

251	767	1905	2456	3971
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1. HABITAT SELECTION AND OVIPOSITION

1.0 General

251	357	925	1112	2506	2778	2838	3014
3466	3710	4016					

1.1 Behaviour (see also: 7.4, 7.33)

161	195	260
-----	-----	-----

1.2 Colonisation (see also: 8.2)

787	2435	2795	2862	3070	3108	3267	3396
3592	3735	3899					

1.3 Diel periodicity (see also: 4.6, 5.9, 6.3, 7.2, 7.11)

4193

1.4 Drinking (see also: 1.8, 5.5, 5.26, 7.21, 10.14)

2823 3600

1.5 Drought (see also: 1.10, 2.3, 2.10)

No entries

1.6 Fertilisation (see also: 2.4, 7.26)

No entries

1.7 Ovaries (see also: 5.18, 5.19, 10.10)

356	538	1386	2271	3430	3565	4015
-----	-----	------	------	------	------	------

1.8 Oviposition (see also: 7.2, 7.33 - 7.36)

27	35	148	161	178	179	219	298
426	495	566	579	605	693	696	804
821	892	893	924	951	989	1009	1137
1139	1192	1214	1261	1307	1308	1328	1338
1401	1445	1448	1451	1553	1839	1855	1913
2103	2175	2506	2567	2825	2872	2873	2990
3057	3066	3205	3220	3430	3491	3492	3565
3578	3582	3603	3686	3694	3753	3784	3789
3826	3977	4091	4093	4103	4117	4147	4193

1.9 Temperature (see also: 1.3, 7.11)

 No entries

1.10 Temporary habitats (see also: 1.5, 2.10, 4.24, 5.27,
 8.12)

 146 281 1105

1.11 Energetics (see also: 3.15, 4.26, 5.32)

 1451 1913

2. THE EGG STAGE

2.0 General

304

2.1 Development (see also: 10.3)

55	84	145	260	261	380	495	520
714	753	893	989	1009	1138	1222	1261
1315	1543	1976	2345	2984	3053	3220	3497
3803	4015						

2.2 Diapause (see also: 2.9, 2.11, 2.12, 10.14)

348 753 893 989 1205 1261

2.3 Drought (see also: 1.5, 1.10, 2.10, 4.8, 4.24, 5.27, 8.4, 8.12, 10.14)

495

2.4 Fertilisation (see also: 1.6, 7.30)

356

2.5 Hatching (see also: 2.1, 10.3)

1219 2567 3220

2.6 Hibernation (see also: 2.1, 2.2, 2.9, 2.12, 10.3)

146 1105

2.7 Parasites (see also: 2.8)

684 1261 2567 2580 3304

2.8 Predation (see also: 2.7)

2903

2.9 Temperature (see also: 2.1, 2.2, 2.6, 10.3, 10.14)

145 495 753 4015

- 2.10 Temporary habitats (see also: 1.5, 1.10, 2.3, 4.8, 4.24, 5.27, 8.4, 8.12)

No entries

- 2.11 Photoperiod (see also: 2.2)

753

- 2.12 Wetting (see also: 2.2, 10.14)

2311

- 2.13 Energetics (see also: 3.15, 4.26, 5.32)

1451 1913

- 2.14 Morphology

538 877 2177 2311 3220 3494 4117

3. THE LARVAL STAGE: GENERAL

3.0 General

208	216	270	357	376	441	472	490
510	539	594	600	663	778	827	840
841	961	986	1012	1015	1017	1023	1025
1036	1039	1046	1090	1106	1108	1109	1110
1112	1126	1145	1146	1149	1150	1151	1155
1198	1204	1213	1276	1329	1342	1513	1535
1577	1676	1859	1913	1924	2123		

3.1 Behaviour (see also: 3.0, 3.6, 3.10, 4.3)

69	159	169	452	525	581	667	787
879	907	917	1025	1030	1110	1123	1133
1404	1567	1859	2782	2975	3254	3404	3504
3511	3552	3706	3718	3929			

3.2 Colour (see also: 3.1, 3.8)

548 1692

3.3 Compound eyes (see also: 3.1, 3.6, 3.10, 4.4, 10.13)

495

3.4 Diaphragm (see also: 3.9, 10.8, 10.11)

3196

3.5 Economic importance (see also: 3.6, 3.7, 3.8)

465	734	928	954	1052	1089	1275	1547
1863	1875	1910	1912	1928	2104	2113	2146
2155	2170	2272	2681	2962	3076	3115	3130
3170	3195	3394	3577	3701	4128		

3.6 Feeding (see also: 3.1, 3.5, 3.15, 4.26, 10.2)

21	58	59	69	125	159	342	375
417	447	452	465	472	495	496	525
585	651	667	670	709	734	737	776
879	907	917	928	954	969	1052	1102
1133	1209	1216	1275	1319	1358	1373	1388
1398	1461	1547	1810	1855	1888	1889	1928
1958	1977	2037	2094	2150	2170	2191	2234
2297	2397	2398	2399	2400	2402	2421	2505
2550	2575	2593	2608	2617	2627	2668	2681

2697	2718	2719	2724	2730	2780	2797	2843
2969	2996	3008	3011	3133	3192	3209	3226
3232	3241	3254	3270	3290	3326	3391	3395
3404	3405	3524	3577	3663	3701	3702	3706
3748	3768	3802	3804	3873	3874	3896	3920
3973	4008	4136	4174	4186			

3.7 Parasites (see also: 3.5, 4.16, 5.20)

94	134	172	173	343	346	347	379
397	446	468	502	544	599	622	623
624	643	725	739	740	781	825	831
835	843	937	964	1033	1089	1207	1246
1355	1365	1369	1371	1382	1559	1573	1580
1618	1759	1846	1869	1890	1951	1974	2154
2252	2294	2305	2319	2370	2385	2438	2540
2593	2680	2696	2805	2874	2890	3026	3027
3202	3502	3692	3699	3702	3703	3715	3818
3838	3912	4038					

3.8 Predation on Odonata (see also: 3.5, 3.6, 3.15, 4.26)

152	471	485	617	727	749	882	922
1022	1026	1032	1063	1068	1072	1153	1259
1493	1558	1562	1576	1581	1609	1671	1678
1686	1756	1763	1848	1849	1850	1855	1859
1952	1974	2089	2123	2155	2233	2245	2246
2250	2295	2592	2895	2897	2919	2941	2994
3010	3115	3256	3329	3483	3565	3700	3705
3708	3717	3831	3929	4033	4126		

3.9 Respiration (see also: 3.4, 4.20, 10.11)

3780

3.10 Sense organs (see also: 3.3, 4.4, 10.12, 10.13)

541

3.11 Temperature (see also: 4.23)

106	459	667	1272	1278	1441	1470	1494
1500	1525	1546	1582	1583	1584	1673	1827
1961	2000	2153	2397	2575	2601	2783	3045
3418	3469	3768					

3.12 Pollution (see also: 3.5, 9.6)

24	85	133	196	198	365	387	390
391	458	503	572	574	628	682	747
758	827	848	931	938	957	962	994

1015	1046	1079	1181	1235	1280	1352	1360
1426	1434	1454	1472	1477	1491	1498	1500
1503	1507	1525	1527	1582	1583	1584	1602
1610	1627	1636	1648	1680	1693	1724	1773
1783	1864	1867	1941	1958	1961	1968	2000
2032	2256	2260	2267	2340	2343	2382	2433
2458	2595	2601	2611	2624	2892	2910	3011
3088	3170	3182	3184	3427	3478	3506	3618
3654	3655	3732	3829	3904	3917	3925	3926
3944	3952	4035	4040	4072	4128	4142	4164
4187							

3.13 Morphology (see also: 3.3, 3.4, 3.14, 9.5, 10.1, 10.5, 10.8, 10.10, 10.12, 10.13)

4	9	119	132	139	219	294	377
378	402	403	404	405	505	522	527
543	557	631	674	677	678	679	688
714	736	761	902	930	934	942	948
961	965	977	995	1086	1191	1281	1341
1414	1508	1614	1731	1782	1801	1872	1873
1908	1922	1932	1936	1976	1977	1995	1996
2073	2074	2113	2120	2218	2289	2320	2374
2386	2459	2461	2463	2478	2500	2523	2555
2556	2606	2633	2792	2808	2825	2839	2850
2851	2893	2908	2947	2955	2969	2980	2983
2984	2993	2997	3009	3014	3068	3069	3107
3218	3268	3275	3282	3291	3321	3333	3362
3398	3439	3475	3497	3504	3525	3526	3543
3604	3676	3724	3748	3757	3764	3775	3780
3802	3846	3850	3858	3859	3860	3861	3878
3900	3984	4025	4041	4115	4134	4190	

3.14 Habitat distribution (see also: 1.0, 3.0, 3.13, 10.4)

382	787	817	818	1173	1376	1391	1425
1432	1437	1450	1465	1466	1499	1505	1544
1642	1714	1731	1762	1781	1810	1818	1824
1855	1935	1959	1977	1999	2009	2059	2073
2077	2106	2155	2178	2251	2253	2261	2291
2304	2313	2331	2369	2404	2428	2440	2441
2462	2468	2494	2545	2608	2657	2685	2755
2825	2857	2859	2866	2878	2898	2975	3009
3021	3064	3095	3110	3117	3144	3148	3183
3225	3313	3356	3388	3410	3430	3469	3512
3561	3619	3704	3757	3775	3896	4016	4086
4106	4131						

3.15 Energetics; biomass estimates (see also: 4.26, 5.32)

496	1436	1446	1451	1505	1585	1607	1810
1882	1924	2257	2360	2390	2647	2722	2860
2861	2864	2865	2886	2887	2898	3241	3302
3422	3708	3928	4136	4174			

3.16 Interspecific competition

2123	2697	4136	4154	4157
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4. GROWTH, METAMORPHOSIS AND EMERGENCE

- 4.0 General (see also: 10.6)
496 1017 1068
- 4.1 Aggregation (see also: 4.9)
No entries
- 4.2 Altitude (see also: 4.23, 5.4, 5.26, 10.14)
79 125 437 903 2798 3087
- 4.3 Behaviour (see also: 3.1, 5.5)
125
- 4.4 Compound eyes (see also: 3.3, 5.7, 10.13)
No entries
- 4.5 Diapause (see also: 4.8, 4.12, 4.13, 4.17, 4.22, 4.23, 10.6, 10.14)
880 1069 1205 1316 2868 3349 3712
- 4.6 Diel periodicity (see also: 5.9, 6.3, 7.2)
222 709 903 1546 1567 1731 1977 3718
3761
- 4.7 Digestion (see also: 3.6, 10.2)
No entries
- 4.8 Drought (see also: 1.5, 1.10, 2.3, 2.10, 4.24, 10.14)
199 459 558 1825 2081 2567 2609 2627
2629 2662 3061 4091
- 4.9 Emergence (see also: 4.15, 8.8)
56 72 129 160 163 215 222 251
285 358 374 421 566 581 607 608
609 637 720 782 804 814 855 856

903	1069	1093	1094	1183	1212	1405	1451
1604	1614	1652	1677	1731	1977	1991	2079
2284	2360	2365	2366	2401	2407	2490	2533
2588	2600	2752	2762	3079	3115	3470	3471
3565	3574	3600	3769	3834	4123	4136	4200

4.10 Endocrine organs (see also: 10.9)

No entries

4.11 Flying season (see also: 4.9, 5.13)

3009 3392 4051

4.12 Growth rate (see also: 4.5, 4.13, 4.15, 4.22, 10.6, 10.14)

55	59	84	100	261	327	426	429
447	461	491	495	496	667	714	751
814	823	893	989	1009	1029	1053	1068
1112	1179	1330	1353	1652	1908	1931	1949
1976	1994	2004	2007	2205	2208	2311	2461
2561	2631	2843	2984	3053	3291	3297	3422
3504	4015	4128					

4.13 Hibernation (see also: 4.5, 4.22)

70 169 1261 4091

4.14 Latitude (see also: 4.17, 4.22, 4.23, 5.16)

No entries

4.15 Metamorphosis; moulting (see also: 4.9, 4.12, 10.6)

87	88	273	274	350	641	711	720
783	797	1587	1588	1611			

4.16 Parasites (see also: 3.7, 5.20)

1591 1744

4.17 Photoperiod (see also: 4.5, 4.14, 4.22)

155	369	549	751	880	881	1200	1330
1560	1625	1626	2007	3115	3349	3536	

4.18 Population size (see also: 4.25, 4.26, 5.22)

146	496	594	884	978	987	1032	1068
1105	1108	1505	2615	3565	3838		

4.19 Predation on Odonata (see also: 3.8, 5.29)

56	215	2794	2958	2975
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4.20 Respiration (see also: 3.9, 10.11)

1745	2699	3761
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4.21 Sex ratio (see also: 4.9, 7.41)

56	99	161	222	247	495	637	1451
1913	2815	3470	3565	4193			

4.22 Seasonal development (see also: 4.2, 4.5, 4.9, 4.11 - 4.15, 4.17, 4.23, 4.24, 5.13)

56	59	94	106	145	155	165	260
327	348	356	358	369	374	421	429
496	527	528	637	751	752	804	880
881	934	986	1053	1068	1069	1268	1353
1490	1505	1560	1873	1975	1988	1994	2007
2139	2178	2304	2397	2445	2572	2627	2699
2868	2901	2929	2975	2984	2993	3053	3089
3115	3223	3241	3253	3335	3349	3405	3497
3535	3543	3552	3605	3801	3875	4012	4112
4193							

4.23 Temperature (see also: 3.11, 4.22, 10.14)

70	128	155	358	369	608	751	823
880	881	1069	1330	1464	3115	3297	3349
3801	3824	4015					

4.24 Temporary habitats (see also: 1.5, 1.10, 2.3, 2.10, 4.8, 4.22, 5.27, 8.12)

199	260	459	668	742	818	847	947
2875	3536	3726	4081				

4.25 Survivorship (see also: 3.8, 4.18, 4.19, 4.26, 5.29)

162	496	734	1068	2700	3565
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4.26 Energetics (see also: 3.6, 3.8, 3.15, 4.18, 4.25, 5.32)

59	367	496	500	533	680	748	958
1028	1068	1183	1451	1913			

5. ADULT LIFE: GENERAL

5.0 General

251 441

5.1 Aestivation (see also: 1.5, 2.3, 4.8, 4.22, 5.15, 5.27, 8.4)

260 818 2001 3712 3968 3997

5.2 Age (see also: 0.21, 0.22, 4.25, 5.13, 5.17, 5.18, 5.22)

1687 2319

5.3 Aggregation (see also: 5.24, 6.1, 7.15, 8.1, 8.11)

251

5.4 Altitude (see also: 4.2, 5.13, 5.26)

93	168	445	629	789	1060	1496	1981
2204	2427	2769	3446	3451	3573	3599	3605
3885	3897	3939					

5.5 Behaviour (see also: 4.3, 5.29, 6.0, 7.17)

96	130	161	175	202	203	251	598
635	665	723	811	821	844	868	908
963	1001	1054	1125	1173	1857	1860	2891
2971	3347	3350	3461	3608			

5.6 Colour (see also: 5.7, 5.18, 5.26, 7.19, 10.5, 10.9, 10.14)

92	93	105	157	295	359	545	612
707	800	996	1188	1302	1317	1348	1715
1975	2487	2725	2946	3160	3334	3647	3790

5.7 Compound eyes (see also: 6.2, 6.5, 7.20, 10.13)

52	350	353	467	540	648	681	699
793	832	900	916	939	3927	3999	4168

5.8 Diapause (see also: 4.22, 5.1, 5.15, 5.16)

No entries

5.9 Diel periodicity (see also: 1.3, 4.6, 6.3, 7.2)

92	149	206	251	277	298	356	373
611	635	676	693	744	844	925	980
1034	1071	1237	1445	1479	1640	1652	2080
2368	2776	2879	2971	3037	3145	3148	3793
4060	4159	4183	4212				

5.10 Dispersal (see also: 7.16, 8.0, 8.3)

1529 1658

5.11 Flight physiology (see also: 10.8)

92	109	338	480	595	626	673	763
873	980	1056	1321	1860	2269	2315	2333
2437	2528	2589	2667	2673	2720	2733	2751
3161	3281	3382	3442	3472	3476	3529	3545
3601	3744	3993	3994	4057	4217	4222	

5.12 Fliers (see also: 5.21, 5.26, 7.5, 10.8)

1538 1567 2217

5.13 Flying season (see also: 4.11, 4.22, 5.17, 5.18)

17	96	100	111	146	210	298	477
647	693	754	899	924	946	1075	1105
1167	1168	1224	2082	2090	2111	2178	2231
2422	2425	2428	2477	2529	2612	2626	2659
2701	2781	2930	2933	3033	3037	3073	3116
3140	3333	3359	3365	3424	3602	3616	3641
3685							

5.14 Folklore (see also: 0.3, 0.4)

118 462 1016

5.15 Hibernation (see also: 4.22, 5.1, 5.8)

89 90 146 356 1105 1825 3614 3633

5.16 Latitude (see also: 4.14, 4.22, 5.13)

1640 3630 3897

5.17 Longevity (see also: 4.22, 4.25, 5.2, 5.13)

54	96	174	247	251	538	1010	1715
1994	2301	2868	3089	3424	3562	3565	3600
4068	4111	4128					

5.18 Maturation period (see also: 5.2, 5.6, 5.17, 5.19, 5.28, 10.10)

161	251	363	498	609	1103	1659	1975
2301	2319	2868	3522	4193			

5.19 Ovaries (see also: 1.7, 5.18, 10.10)

1623

5.20 Parasites (see also: 3.5, 3.7, 5.2, 5.17, 5.29)

1	164	343	347	354	364	489	622
623	643	644	730	825	861	949	1089
1100	1207	1246	1502	1568	1573	1591	1603
1761	1791	1845	1846	1917	1951	2065	2319
2385	2429	2616	2766	2801	2988	3121	3188
3199	3317	3505	3508	3646	3648	3649	3650
3651	3652	3692	3699	3715	3742	3743	3752
3856	3914	3988	4034	4038	4111	4178	

5.21 Perchers (see also: 5.12, 5.26)

980 2217 3997

5.22 Population size (see also: 4.18)

161	162	205	363	498	635	658	703
899	923	1010	1103	1227	1372	1450	1681
2301	2380	3269	3331	3424	3493	4111	

5.23 Respiration (see also: 4.20, 10.11)

No entries

5.24 Roosting sites (see also: 5.3, 8.11)

40 92 93 251 1658 2028 2056 2380

5.25 Sense organs (see also: 5.30, 10.12, 10.13)

No entries

5.26 Temperature (see also: 1.9, 2.9, 3.11, 4.22, 4.23, 6.7, 7.11)

93	168	251	356	924	980	996	1060
1348	1356	1410	1640	1721	2080	2087	2217
2482	2648	2740	2854	3392	3442	3554	3633
3733	3778	3839	3903	3985	3997	4160	4222

5.27 Temporary habitats (see also: 1.10, 2.10, 4.24, 8.12)

No entries

5.28 Testes (see also: 5.18, 10.10)

833 1557

5.29 Predation on Odonata (see also: 3.8, 4.19, 5.5, 5.20)

28	29	45	49	135	183	220	251
263	362	470	617	675	749	756	794
854	856	865	918	926	933	1014	1038
1098	1118	1129	1130	1201	1223	1234	1261
1310	1363	1497	1524	1567	1578	1579	1705
2302	2536	2787	2936	2958	2973	2994	3257
3271	3312	3334	3445	3449	3462	3503	3644
3717	3778	3840	3966	3968	4017	4158	

5.30 Morphology (see also: 9.5, 10.1, 10.4, 10.5, 10.8 - 10.10, 10.12, 10.13)

3	47	101	115	117	197	249	286
349	399	432	443	514	609	614	626
664	743	832	833	963	968	979	1001
1045	1092	1157	1176	1182	1279	1782	2039
2060	2140	2893	2902	3328	3578	3918	3951

5.31 Pollution (see also: 3.12, 9.6)

153 1251 2880

5.32 Energetics; biomass estimates (see also: 3.15, 4.26)

2080 2684 3997 4130 4160 4222

5.33 Interspecific competition

3493

6. ADULT FEEDING BEHAVIOUR

6.0 General (see also: 5.5)

1985

6.1 Aggregation (see also: 5.3, 7.15, 8.1)

73	421	1567	2006	2721	2727	3113	3132
3466							

6.2 Compound eyes (see also: 5.7, 10.13)

3968

6.3 Diel periodicity (see also: 1.3, 4.6, 5.9, 7.2)

1567

6.4 Economic importance (see also: 3.5, 6.5)

212	277	494	639	780	953	1275	2179
2258	2307	2432	2446	2504	2525	2537	2764
2799	3094	3097	3564	3821	3835	4060	4175

6.5 Feeding (see also: 6.6)

73	80	251	277	483	635	639	712
718	762	798	824	953	1275	1294	1362
1524	1534	1683	1856	1916	2197	2268	2613
2695	2754	2823	3178	3205	3334	3503	3812
3968	3997	4083					

6.6 Predation (see also: 5.29, 6.4)

212	335	671	1024	1098	1253	1855	2208
2515							

6.7 Temperature (see also: 5.11, 5.26, 6.3, 10.8)

1567

7. REPRODUCTIVE BEHAVIOUR

7.0 General

16	43	99	161	174	178	190	248
298	309	363	498	524	581	662	665
685	693	760	766	892	908	924	988
1103	1112	1192	1296	1345	1435	1553	1598
1700	1715	1776	1788	1842	1979	1985	2087
2554	2773	2776	2932	2977	3019	3169	3363
3365	3432	3444	3465	3643	3686	4159	4169
4225							

7.1 The meeting of the sexes (see also: 1.0, 7.2, 7.3)

1549 1855 2957

7.2 Rendezvous: time (see also: 1.3, 4.6, 5.9, 6.3, 7.32)

356 784 3430 3491 3499 3747 3778 4193

7.3 Rendezvous: space (see also: 1.0)

251 579 1480

7.4 Relation of rendezvous to copulation and oviposition sites (see also: 1.0, 1.8)

4136

7.5 Territoriality: general (see also: 7.4, 7.6 - 7.10, 7.12, 7.34, 7.35)

16	54	80	251	363	409	498	632
760	785	872	892	960	1103	1188	1192
1390	1553	1597	1715	1747	1842	1856	1860
2175	2301	2741	2956	2957	2972	2977	3020
3038	3057	3106	3364	3432	3678	3686	4100

7.6 Territoriality: definition

251

7.7 Territoriality: sequence in adult life; broad plan; variation (see also: 7.5)

251

- 7.8 Territoriality: site attachment; localisation (see also: 5.2, 7.13)
54 161 251
- 7.9 Territoriality: characteristics; dimensions etc.
1975 2648 3499 3678 4193
- 7.10 Territoriality: residentiality; duration (see also: 5.2)
251 892 1173 2648 3499
- 7.11 Weather; diel periodicity (see also: 5.26, 7.2)
356 1192 3986 4091
- 7.12 Aggressive behaviour: defence; cruising; searching (see also: 7.5, 7.13, 7.35, 7.48)
251 579 695 892 1192 1589 1659 1855
1975 2823 3778 3855 3959 4091 4143
- 7.13 Dominance: success in interactions: intra-/interspecific (see also: 7.12, 7.48)
784 892 2648 3959
- 7.14 Spacing out; highest steady density (see also: 7.15)
1192
- 7.15 Aggregation: density variation and regulation (see also: 5.3, 7.5, 7.14)
2640 3038 3430
- 7.16 Dispersal (see also: 8.3)
No entries
- 7.17 Reproductive behaviour: general (see also: 7.0)
501 3730 3731 3737
- 7.18 (blank)

7.19 Recognition: sex and species (see also: 7.20, 7.21)

209	423	829	885	1252	3459	3787	3855
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7.20 Recognition: visual (see also: 7.21)

1188	1345	1549	3855	3894	4077
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7.21 Courtship (see also: 7.4, 7.12, 7.19, 7.26, 7.35)

68	1173	2650	3686	3789	3894	4091
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7.22 Escape and warning behaviour by female (see also: 7.12)

251	767	1211	3430
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7.23 Recognition: physical (see also: 9.0)

161	885	1211	1598	3787
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7.24 Hybrids and interspecific couples (see also: 7.27)

615	650	2063	2064	3370	3598	3857	4011
4149							

7.25 Reproductive isolation by habitat (see also: 7.19, 9.0)

1345	3089
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7.26 Copulation: general (see also: 2.4, 7.4, 7.21, 7.30)

579	766	892	971	1188	2578	2825	3430
3486	3686	3739	3778	4091	4148		

7.27 Tandem position (see also: 7.26, 7.34)

138	167	253	601	698	716	759	820
1250	1343	1816	2873	3172	3420	3612	3621
3627	3757	4137					

7.28 Sperm transfer, intra-male

157	253	431	579	1188	1598	3430
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7.29 Wheel position *sensu* Rowe (see also: 7.26, 7.30)

No entries

7.30 Copulation: *sensu stricto* (see also: 7.26, 7.29)

253	356	1214	1480	1590	1956	2247	2498
2648	2690	2823	2912	2959	2960	3430	3488
3491	3499	3578	3778	3789	3986		

7.31 Copulation: termination (see also: 7.26, 7.30)

No entries

7.32 Copulation: diel periodicity (see also: 7.2)

3778

7.33 Post-copulatory behaviour: oviposition (see also: 1.8)

892 3430

7.34 Post-copulatory behaviour: tandem oviposition (see also: 1.8, 7.27)

924	1173	1214	1261	1480	2741	2872	3430
3597	3778	3964					

7.35 Post-copulatory behaviour: guarding behaviour (see also: 1.8, 7.12)

157	579	1590	1897	2742	3172	3430	3488
3491	3753	3986	4091				

7.36 Post-copulatory behaviour: solitary (see also: 1.8)

766 1192 1448

7.37 Post-copulatory behaviour: diel periodicity of male interference (see also: 1.3, 7.2)

892 3430

7.38 (blank)

7.39 (blank)

7.40 Mating expectancies and frequencies (see also: 4.21)

99 3089

7.41 Frequency of sexes (see also: 4.21)

99 1192

7.42 Frequency of sexes at water (see also: 4.21, 7.40)

3562

7.43 Frequency of mating (see also: 7.40)

3872

7.44 (blank)

7.45 Adaptive consequences of behaviour (see also: 9.0)

1659 3753 3800 4136 4223

7.46 Summary: ways ecological requirements are met (see also: 7.45, 9.0)

No entries

7.47 (blank)

7.48 Competition: interspecific competitive exclusion (see also: 5.33, 7.13)

98 750 3430

8. DISPERSAL

8.0 General (see also: 5.10)

603 3601

8.1 Aggregation (see also: 5.24, 6.1, 7.15, 8.11)

251 2662 3678 3757

8.2 Colonisation (see also: 1.2, 8.9, 9.8)

503 1389 4048

8.3 Dispersal (see also: 5.10, 8.0, 7.16)

8	141	200	354	768	769	883	1304
2195	2242	2259	2610	2989	3424	3562	3830
4091	4159						

8.4 Drought (see also: 1.5, 1.10, 2.3, 2.10, 4.8, 4.24, 5.26, 5.27, 8.12)

No entries

8.5 Emergence (see also: 4.9, 8.1, 8.8)

2575

8.6 Flight (see also: 5.11, 8.10, 10.8)

No entries

8.7 Hibernation (see also: 1.10, 4.22, 4.24, 5.15, 5.27, 8.12)

No entries

8.8 Maiden flight (see also: 4.9, 8.5, 8.6, 8.10)

251 1402 1694 3822

8.9 Migration (see also: 8.3, 8.10, 9.8)

176	373	406	421	495	507	517	552
553	589	639	700	730	731	741	795

810	818	852	868	894	929	1034	1460
1521	1536	1537	1593	1656	1694	1791	1814
1816	1819	2259	2356	2394	2452	2501	2517
2530	2635	2709	2727	2758	2873	2922	2974
3047	3115	3127	3136	3180	3210	3242	3277
3324	3480	3500	3527	3529	3614	3813	3820
3868	3974	4069	4212				

8.10 Orientation (see also: 8.6, 8.8, 8.9)

3691

8.11 Roosting sites (see also: 5.24, 8.1)

No entries

8.12 Temporary habitats (see also: 1.10, 2.10, 4.24, 5.27, 8.4)

503

9. EVOLUTIONARY PERSPECTIVE

9.0 General

247	516	603	632	633	892	912	1230
2932	3647	3686	3817	4223			

9.1 Fossil history (see also: 3.13, 5.30, 9.2, 9.3)

7	107	763	836	870	912	1569	1572
1785	1829	2122	2583	2809	2918	3342	3985
3994	4057						

9.2 Fossils (see also: 3.13, 5.30, 9.1, 9.3)

107	370	448	912	1050	1081	1572	1645
1654	2206	2333	2403	2430	2518	2519	2521
2544	2568	2570	2582	2583	2597	2734	2768
2809	2970	3063	3093	3162	3181	3248	3251
3295	3323	3342	3345	3354	3355	3453	3645
3716	3816	3980	4022	4208			

9.3 Phylogeny (see also: 9.0, 9.1, 9.2)

7	101	115	291	309	395	433	455
456	457	505	580	613	763	876	1050
1172	1173	1279	1323	1526	2262	2582	3004
3024	3084	3222	3236	3243	3274	3276	3279
3298	3343	3431	3539	3543	3551	3765	3811
3931	3951	4057					

9.4 Local distribution; faunistics; biotopes (see also: 0.2, 3.0, 3.14, 9.8)

12	13	17	23	32	41	44	53
57	60	65	67	71	74	76	79
82	95	96	97	104	105	111	114
121	122	123	124	126	127	131	143
144	150	154	168	175	177	180	182
185	204	210	214	217	218	221	230
231	232	244	246	248	250	252	254
255	259	264	267	268	271	272	275
276	278	284	288	290	296	302	306
308	310	311	312	314	315	316	320
321	322	328	329	330	333	334	336
337	339	351	352	355	360	366	368
372	384	392	393	394	396	400	407
408	410	411	414	415	418	424	427
428	438	442	445	454	460	462	464
477	488	493	497	499	504	506	508
509	510	522	534	535	537	546	547

551	556	559	560	561	563	564	568
570	571	577	584	588	590	591	592
593	596	602	604	610	618	619	620
625	627	628	638	647	657	663	666
672	683	686	687	691	697	706	713
715	717	722	723	724	729	731	732
735	742	752	754	755	757	764	766
770	771	772	773	779	788	790	796
801	809	810	816	817	826	830	834
841	842	849	857	866	886	887	894
896	897	901	910	911	913	914	919
920	921	923	925	927	929	932	935
936	945	946	952	970	973	974	982
984	985	991	992	993	997	998	999
1000	1007	1010	1011	1013	1018	1019	1020
1021	1027	1032	1035	1037	1042	1044	1049
1055	1057	1058	1059	1060	1061	1073	1074
1078	1082	1083	1087	1088	1093	1094	1095
1097	1099	1104	1106	1111	1115	1117	1119
1120	1124	1125	1127	1128	1131	1132	1135
1136	1137	1139	1140	1141	1144	1148	1156
1158	1159	1168	1178	1179	1184	1185	1190
1193	1202	1203	1208	1210	1215	1220	1221
1224	1225	1226	1228	1229	1231	1233	1236
1238	1239	1240	1244	1248	1254	1256	1257
1258	1263	1265	1267	1269	1270	1271	1273
1277	1284	1289	1290	1292	1295	1305	1320
1326	1327	1332	1333	1334	1336	1337	1339
1346	1354	1359	1364	1367	1375	1376	1378
1379	1383	1385	1389	1391	1392	1393	1394
1400	1403	1406	1408	1409	1411	1412	1413
1416	1419	1427	1429	1433	1440	1442	1443
1444	1445	1448	1449	1452	1453	1455	1457
1458	1463	1467	1469	1479	1487	1495	1504
1509	1512	1514	1516	1518	1519	1520	1529
1532	1533	1542	1565	1566	1567	1570	1574
1575	1594	1595	1599	1608	1624	1628	1629
1632	1634	1635	1639	1643	1644	1647	1650
1651	1662	1663	1667	1669	1670	1675	1679
1682	1685	1688	1689	1691	1695	1697	1698
1699	1702	1703	1704	1711	1713	1714	1718
1719	1723	1725	1727	1728	1734	1737	1741
1748	1749	1750	1751	1757	1760	1774	1780
1786	1789	1790	1800	1801	1804	1806	1807
1808	1812	1819	1820	1823	1826	1828	1831
1832	1834	1835	1851	1855	1866	1868	1870
1871	1876	1878	1883	1885	1886	1887	1890
1895	1898	1900	1909	1911	1918	1920	1921
1923	1925	1927	1933	1940	1947	1948	1950
1954	1960	1964	1967	1969	1972	1973	1975
1984	1992	1997	2005	2013	2014	2015	2016
2018	2021	2022	2025	2028	2033	2034	2041
2045	2056	2058	2066	2068	2069	2070	2071
2082	2083	2084	2093	2095	2098	2099	2102
2108	2109	2110	2111	2112	2114	2116	2119
2125	2126	2131	2135	2148	2151	2152	2156
2157	2162	2165	2167	2168	2174	2184	2185

2186	2187	2188	2189	2190	2196	2198	2200
2204	2205	2207	2214	2224	2225	2226	2227
2240	2251	2255	2273	2283	2299	2314	2317
2321	2326	2328	2329	2330	2332	2336	2339
2346	2349	2352	2354	2358	2359	2363	2364
2368	2381	2388	2389	2393	2396	2405	2409
2410	2411	2412	2413	2414	2415	2416	2417
2418	2422	2423	2426	2427	2428	2439	2444
2447	2448	2450	2457	2460	2467	2476	2480
2486	2488	2489	2493	2495	2496	2502	2507
2511	2512	2513	2522	2524	2535	2541	2542
2546	2559	2562	2569	2584	2585	2587	2590
2599	2605	2612	2614	2626	2628	2630	2632
2634	2637	2638	2643	2646	2653	2657	2660
2666	2670	2672	2675	2677	2679	2685	2689
2698	2701	2704	2705	2707	2714	2715	2716
2717	2723	2729	2731	2732	2736	2737	2738
2743	2749	2750	2753	2757	2759	2765	2769
2772	2774	2775	2784	2786	2790	2793	2796
2798	2803	2804	2806	2807	2818	2827	2828
2831	2835	2836	2838	2840	2847	2853	2855
2856	2863	2877	2881	2882	2884	2885	2889
2894	2899	2905	2913	2916	2923	2928	2933
2939	2940	2944	2949	2965	2966	2967	2978
2979	2981	2985	2986	2991	2992	3001	3005
3017	3030	3031	3032	3033	3036	3041	3042
3043	3049	3055	3056	3058	3059	3062	3065
3071	3073	3074	3075	3078	3080	3081	3082
3087	3090	3091	3092	3096	3099	3100	3103
3109	3116	3117	3134	3137	3138	3139	3140
3141	3143	3144	3149	3150	3151	3152	3157
3158	3164	3166	3167	3168	3173	3175	3177
3179	3186	3189	3193	3194	3197	3204	3213
3216	3219	3223	3229	3234	3235	3238	3244
3245	3246	3252	3256	3263	3272	3273	3275
3293	3294	3299	3301	3305	3307	3309	3318
3319	3320	3325	3327	3331	3340	3341	3348
3359	3360	3361	3365	3366	3367	3368	3369
3371	3372	3373	3374	3376	3377	3378	3379
3380	3383	3393	3401	3407	3408	3411	3416
3417	3418	3425	3429	3435	3438	3443	3446
3451	3452	3460	3467	3474	3477	3478	3481
3487	3489	3496	3513	3518	3519	3521	3525
3528	3532	3533	3534	3540	3546	3555	3560
3561	3569	3570	3573	3574	3575	3580	3581
3583	3585	3586	3587	3590	3592	3599	3600
3602	3606	3609	3610	3611	3613	3615	3616
3617	3620	3625	3626	3628	3629	3630	3631
3632	3634	3636	3638	3639	3640	3641	3642
3653	3658	3664	3666	3670	3673	3674	3684
3685	3688	3689	3690	3695	3707	3711	3713
3714	3720	3721	3740	3745	3754	3755	3759
3773	3774	3776	3784	3785	3786	3788	3791
3792	3794	3795	3797	3798	3799	3805	3813
3821	3823	3824	3825	3828	3832	3843	3847
3848	3850	3864	3871	3875	3876	3884	3887
3888	3889	3899	3908	3916	3919	3930	3942

3945	3948	3954	3955	3957	3961	3967	3970
3976	3991	3992	3996	3998	4003	4007	4009
4010	4014	4019	4020	4024	4028	4029	4030
4039	4042	4043	4045	4050	4051	4052	4059
4065	4066	4067	4070	4074	4075	4078	4079
4084	4085	4087	4092	4096	4104	4107	4110
4113	4118	4119	4120	4127	4129	4135	4140
4144	4145	4146	4150	4153	4155	4156	4161
4162	4163	4169	4171	4173	4177	4179	4181
4183	4188	4190	4192	4197	4199	4216	4220

9.5 Taxonomy; systematics (see also: 3.13, 5.30, 9.3)

4	9	10	15	18	34	39	61
62	63	102	103	104	105	113	119
139	188	201	217	223	225	280	294
305	313	324	377	378	388	399	401
402	403	404	405	422	444	522	527
529	543	631	633	634	645	652	669
674	676	677	678	679	690	721	761
788	800	805	806	807	812	838	862
863	864	871	888	895	934	940	941
942	943	961	966	1043	1086	1096	1161
1162	1163	1164	1170	1175	1191	1196	1230
1242	1255	1262	1281	1288	1297	1298	1306
1347	1349	1351	1377	1484	1485	1488	1496
1504	1511	1512	1519	1531	1614	1643	1644
1666	1670	1707	1730	1731	1746	1776	1781
1792	1801	1807	1886	1911	1937	1965	1966
1975	1976	1977	1995	1996	1998	2031	2053
2073	2074	2097	2101	2120	2127	2128	2160
2173	2180	2204	2215	2218	2239	2262	2282
2308	2313	2323	2349	2350	2355	2371	2372
2373	2374	2377	2378	2434	2436	2443	2462
2556	2596	2606	2636	2663	2664	2693	2714
2716	2726	2744	2756	2760	2788	2808	2817
2844	2924	2931	2945	2947	2954	2955	2999
3000	3040	3101	3118	3125	3145	3153	3177
3200	3208	3211	3224	3285	3288	3289	3308
3389	3406	3414	3429	3473	3485	3501	3507
3509	3523	3546	3547	3548	3549	3576	3647
3676	3757	3762	3763	3774	3775	3846	3862
3863	3883	3900	3911	3921	3933	3939	3950
3953	3956	3957	3958	3982	4023	4055	4058
4062	4064	4092	4095	4107	4114		

9.6 Conservation (see also: 3.12)

22	111	196	233	389	390	392	437
519	555	593	628	666	687	779	845
857	860	894	906	959	972	1065	1066
1180	1228	1273	1312	1340	1361	1380	1412
1428	1449	1464	1468	1540	1553	1602	1641
1646	1649	1672	1696	1729	1741	1790	1804
1805	1835	1874	1918	1927	1983	1999	2014

2114	2116	2130	2131	2198	2203	2224	2240
2276	2283	2299	2314	2317	2318	2341	2342
2352	2389	2405	2472	2508	2512	2522	2535
2537	2559	2595	2602	2603	2628	2637	2639
2655	2661	2694	2715	2732	2746	2753	2826
2838	2899	2907	2925	2926	2927	2942	2943
2965	3001	3006	3012	3013	3028	3059	3074
3083	3102	3105	3108	3112	3115	3119	3120
3129	3131	3138	3147	3165	3174	3198	3207
3212	3237	3258	3261	3267	3296	3306	3307
3335	3336	3352	3373	3383	3401	3403	3408
3411	3414	3434	3454	3456	3468	3481	3490
3496	3540	3556	3559	3568	3572	3579	3588
3593	3605	3613	3622	3637	3662	3682	3683
3688	3736	3750	3756	3760	3781	3807	3833
3845	3851	3854	3865	3867	3889	3898	3906
3922	3923	3936	3942	3945	3946	3948	3949
3987	3995	3996	4002	4018	4021	4026	4035
4045	4054	4076	4098	4101	4110	4122	4150
4162	4166	4173	4179	4196	4201	4202	4224

9.7 Genetics (see also: 9.9, 10.10)

50	51	75	192	209	256	257	318
423	481	526	613	650	661	704	705
1003	1252	1313	1322	1374	1738	1739	2465
2566	2641	2682	2683	2837	2934	3007	3155
3249	3250	3386	3387	3426	3669	3890	3901
3924	4167						

9.8 Zoogeography including climate (see also: 9.0, 9.4)

14	15	63	64	141	142	143	144
184	226	293	383	399	416	515	528
603	654	656	657	660	708	774	810
837	839	870	871	887	1031	1040	1048
1062	1067	1291	1306	1349	1350	1376	1393
1518	1520	1533	1586	1596	1644	1673	1741
1807	1841	1879	1886	1887	1937	1954	1965
1966	1981	2014	2107	2110	2112	2126	2212
2218	2285	2286	2296	2303	2338	2342	2347
2356	2378	2379	2384	2394	2422	2424	2428
2440	2449	2469	2522	2552	2581	2590	2629
2658	2757	2834	2857	2904	2926	3002	3003
3004	3024	3073	3092	3109	3200	3203	3214
3243	3247	3255	3259	3260	3280	3292	3309
3311	3325	3335	3549	3576	3676	3728	3745
3849	3866	3897	4059	4073	4202		

9.9 Variation (see also: 3.13, 4.14, 4.22, 4.23, 5.30, 9.7)

18	46	47	90	105	147	170	282
295	395	399	425	522	545	634	649
739	800	1134	1217	1302	1309	1317	1318

1324	1455	1456	1458	1483	1552	1622	1715
1732	1746	2041	2135	2262	2321	2408	2561
2750	2774	2916	2917	2932	2946	2954	2978
3000	3034	3051	3062	3177	3215	3239	3297
3479	3501	3549	3550	3647	3658	3849	3897
3938	4138						

10. PHYSIOLOGY

10.0 General

540	614	1066	2665
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10.1 Circulatory system (see also: 3.13, 5.30)

269	289	733	802	828	977	979	1264
1387	1476	1510	1811	2176	2598	2896	2906
3114	3142	3810	4210				

10.2 Digestion; nutrition (see also: 3.6, 4.12, 6.5, 10.6)

249	381	492	736	965	1515	1606	1664
1665	1971	2149	2254	2312	2392	2692	2893
3104	3171						

10.3 Egg development (see also: 2.1)

371	877	1205
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10.4 Excretion; osmoregulation (see also: 3.14)

66	81	382	1243	1430	1481	1601	1813
1892	1957	1993	2077	2096	2158	2192	2376
2708	2712	2938	3110	3346	3594	3672	3810
4027	4165	4210					

10.5 Integument (see also: 3.2, 5.6)

245	299	359	580	612	900	1172	1348
1692	2543	2710	3170	4209			

10.6 Larval growth (see also: 4.0, 4.12)

297	385	386	694	1218
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10.7 Metabolism (see also: 4.23, 5.26)

11	81	93	211	1585	2711	3552	3869
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10.8 Muscular system; locomotion (see also: 3.4, 5.11)

83	117	279	291	338	342	455	456
457	480	595	626	630	664	673	710
799	858	873	930	980	1008	1076	1182

1283	1285	1321	1381	1438	1447	1555	2002
2011	2012	2322	2620	2724	3196	3384	3395
3472	3827	4217					

10.9 Nervous and endocrine systems (see also: 3.1, 4.3, 4.12, 4.15, 4.22, 5.5)

19	87	88	108	151	166	274	279
286	297	299	325	326	345	349	350
385	386	434	439	440	451	453	463
521	641	646	673	711	736	783	803
878	904	963	988	990	1001	1080	1205
1218	1260	1282	1417	1420	1551	1587	1588
1611	1619	1665	1674	1914	2044	2406	2479
2483	2619	2691	2820	2832	2900	2937	2948
3052	3122	3135	3542	3624	3771	3881	3891
3932	4218						

10.10 Reproductive systems (see also: 5.18, 5.19, 5.28)

151	186	436	475	521	877	1293	1313
1386	1462	1623	1722	1987	2044	2271	2674
2802	2888	2902	3344	3353	3385	3531	3578
3709	3913	3918	4080	4167	4195		

10.11 Respiration (see also: 3.4, 3.9, 4.20, 5.23)

83	197	245	265	266	279	576	902
957	1892	2158	2182	2183	2192	2402	2499
2708	3771	4187					

10.12 Sense organs:- mechanical/chemical stimuli (see also: 3.13, 5.25, 5.30)

447	466	541	626	743	873	915	1045
1216	1245	2086	2421	2451	2454	2455	2833
3077	3240						

10.13 Sense organs:- visual stimuli (see also: 3.6, 3.13, 4.4, 5.7, 5.30, 6.2, 6.5, 7.20)

38	52	89	136	224	273	303	323
335	353	449	450	451	467	621	636
640	648	671	681	793	797	803	878
916	955	956	963	975	976	1001	1051
1077	1174	1247	1325	1550	1631	1633	1720
1877	1881	1891	1893	1929	1942	1943	2010
2023	2024	2091	2092	2133	2222	2229	2298
2309	2310	2335	2375	2453	2492	2527	2532
2586	2594	2623	2645	2654	2656	2678	2735
2800	2810	2813	2819	2845	2846	2909	3039
3060	3154	3159	3163	3228	3231	3440	3545

3656	3657	3677	3697	3744	3777	3896	3968
3999	4168	4182	4203				

10.14 Water and temperature relations (see also: 1.5, 1.9, 2.3, 2.9, 3.11, 4.8, 4.23, 5.26, 6.7, 8.4, 10.4)

269	1107	2158	2192	2579
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APPENDIX I

Classified list of topics

0. GENERAL AND MISCELLANEOUS

- 0.0 General
- 0.1 Bibliographies
- 0.2 Catalogues; checklists
- 0.3 Common names
- 0.4 Folklore
- 0.5 General works on the biology of Odonata: popular
- 0.6 General works on the biology of Odonata: scientific
- 0.7 History of odonatology
- 0.8 Identification manuals; guides; handbooks
- 0.9 Literature surveys; services; distribution maps; museums
- 0.10 Meetings; colloquia; societies; journals
- 0.11 Miscellaneous
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- 0.16 Reviews
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- 0.18 Techniques; methods:- colour preservation
- 0.19 Techniques; methods:- curation
- 0.20 Techniques; methods:- estimation of numbers
- 0.21 Techniques; methods:- field methods; collecting
- 0.22 Techniques; methods:- laboratory methods
- 0.23 Techniques; methods:- marking
- 0.24 Techniques; methods:- photography
- 0.25 Techniques; methods:- rearing; colonisation
- 0.26 Terminology

1. HABITAT SELECTION AND OVIPOSITION

- 1.0 General
- 1.1 Behaviour
- 1.2 Colonisation
- 1.3 Diel periodicity
- 1.4 Drinking
- 1.5 Drought
- 1.6 Fertilisation
- 1.7 Ovaries
- 1.8 Oviposition
- 1.9 Temperature
- 1.10 Temporary habitats
- 1.11 Energetics

2. THE EGG STAGE

- 2.0 General
- 2.1 Development
- 2.2 Diapause
- 2.3 Drought
- 2.4 Fertilisation
- 2.5 Hatching
- 2.6 Hibernation
- 2.7 Parasites
- 2.8 Predation
- 2.9 Temperature
- 2.10 Temporary habitats
- 2.11 Photoperiod
- 2.12 Wetting
- 2.13 Energetics
- 2.14 Morphology

3. THE LARVAL STAGE: GENERAL

- 3.0 General
- 3.1 Behaviour
- 3.2 Colour
- 3.3 Compound eyes
- 3.4 Diaphragm
- 3.5 Economic importance
- 3.6 Feeding
- 3.7 Parasites
- 3.8 Predation on Odonata
- 3.9 Respiration
- 3.10 Sense organs
- 3.11 Temperature
- 3.12 Pollution
- 3.13 Morphology
- 3.14 Habitat distribution
- 3.15 Energetics; biomass estimates
- 3.16 Interspecific competition

4. GROWTH, METAMORPHOSIS AND EMERGENCE

- 4.0 General
- 4.1 Aggregation
- 4.2 Altitude
- 4.3 Behaviour
- 4.4 Compound eyes
- 4.5 Diapause
- 4.6 Diel periodicity
- 4.7 Digestion
- 4.8 Drought
- 4.9 Emergence
- 4.10 Endocrine organs
- 4.11 Flying season
- 4.12 Growth rate
- 4.13 Hibernation
- 4.14 Latitude

- 4.15 Metamorphosis; moulting
- 4.16 Parasites
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- 4.18 Population size
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- 4.20 Respiration
- 4.21 Sex ratio
- 4.22 Seasonal development
- 4.23 Temperature
- 4.24 Temporary habitats
- 4.25 Survivorship
- 4.26 Energetics

5. ADULT LIFE: GENERAL

- 5.0 General
- 5.1 Aestivation
- 5.2 Age
- 5.3 Aggregation
- 5.4 Altitude
- 5.5 Behaviour
- 5.6 Colour
- 5.7 Compound eyes
- 5.8 Diapause
- 5.9 Diel periodicity
- 5.10 Dispersal
- 5.11 Flight physiology
- 5.12 Fliers
- 5.13 Flying season
- 5.14 Folklore
- 5.15 Hibernation
- 5.16 Latitude
- 5.17 Longevity
- 5.18 Maturation period
- 5.19 Ovaries
- 5.20 Parasites
- 5.21 Perchers
- 5.22 Population size
- 5.23 Respiration
- 5.24 Roosting sites
- 5.25 Sense organs
- 5.26 Temperature
- 5.27 Temporary habitats
- 5.28 Testes
- 5.29 Predation on Odonata
- 5.30 Morphology
- 5.31 Pollution
- 5.32 Energetics; biomass estimates
- 5.33 Interspecific competition

6. ADULT FEEDING BEHAVIOUR

- 6.0 General
- 6.1 Aggregation
- 6.2 Compound eyes

- 6.3 Diel periodicity
- 6.4 Economic importance
- 6.5 Feeding
- 6.6 Predation
- 6.7 Temperature

7. REPRODUCTIVE BEHAVIOUR

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- 7.1 The meeting of the sexes
- 7.2 Rendezvous: time
- 7.3 Rendezvous: space
- 7.4 Relation of rendezvous to copulation and oviposition sites
- 7.5 Territoriality: general
- 7.6 Territoriality: definition
- 7.7 Territoriality: sequence in adult life; broad plan; variation
- 7.8 Territoriality: site attachment; localisation
- 7.9 Territoriality: characteristics; dimensions etc.
- 7.10 Territoriality: residentiality; duration
- 7.11 Weather; diel periodicity
- 7.12 Aggressive behaviour: defence; cruising; searching
- 7.13 Dominance: success in interactions: intra-/interspecific
- 7.14 Spacing out; highest steady density
- 7.15 Aggregation: density variation and regulation
- 7.16 Dispersal
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- 7.19 Recognition: sex and species
- 7.20 Recognition: visual
- 7.21 Courtship
- 7.22 Escape and warning behaviour by female
- 7.23 Recognition: physical
- 7.24 Hybrids and interspecific couples
- 7.25 Reproductive isolation by habitat
- 7.26 Copulation: general
- 7.27 Tandem position
- 7.28 Sperm transfer, intra-male
- 7.29 Wheel position sensu Rowe
- 7.30 Copulation: sensu stricto
- 7.31 Copulation: termination
- 7.32 Copulation: diel periodicity
- 7.33 Post-copulatory behaviour: oviposition
- 7.34 Post-copulatory behaviour: tandem oviposition
- 7.35 Post-copulatory behaviour: guarding behaviour
- 7.36 Post-copulatory behaviour: solitary
- 7.37 Post-copulatory behaviour: diel periodicity of male interference
- 7.38 (blank)
- 7.39 (blank)
- 7.40 Mating expectancies and frequencies
- 7.41 Frequency of sexes
- 7.42 Frequency of sexes at water
- 7.43 Frequency of mating

- 7.44 (blank)
- 7.45 Adaptive consequences of behaviour
- 7.46 Summary: ways ecological requirements are met
- 7.47 (blank)
- 7.48 Competition: interspecific competitive exclusion

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- 8.1 Aggregation
- 8.2 Colonisation
- 8.3 Dispersal
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