

OCCASIONAL PAPER NO. 74

Records of the Zoological Survey of India

**Contributions of the Zoological Survey of India
(1916-1976)**

**P. D. Gupta
S. K. Gupta**

Zoological Survey of India

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OF THE
ZOOLOGICAL SURVEY OF INDIA

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(1916—1976)

BY

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INTRODUCTION

The completion of 60 years of existence of the Zoological Survey of India is a ripe opportunity to reflect on its history and achievements. Many people find it difficult to appreciate the achievements for the work done and voluminous storage of knowledge published by an institution devoted primarily to the fundamental aspects of our natural resources consisting of animals in the context of over-all national set up. We do not want to involve ourselves into the academics of the word 'achievements' but it is considered useful to present below a brief history of the origin of the Zoological Survey of India and the results of its activities. We must allay any feeling about it to be a document of self praise of the Zoological Survey of India. More appropriately it is a study in retrospect to guide our future programmes bringing to the fore the lacunae in our efforts.

The study of modern zoology started in India about 150 years ago. Those days it was exclusively a privilege of foreigners both British and other European-nationals, administrators, military personnel, medical men and naturalists serving in India in various capacities to pursue this branch of knowledge. Edward Blyth, James Woodmason, William Blanford, Ferdinand Stoliczka, H. H. Godwin-Austen, A. Alcock, Francis Day and John McClelland are some of the names common to a student of zoology in this country. The collections made by many of those workers gradually passed on to the then Royal Asiatic Society of Bengal, now known as the Asiatic Society of Bengal, Calcutta.

Dr. Nathaniel Wallich, a Danish Botanist, gets the credit of proposing to the Society on 2nd February, 1814 the formation of Museum. Wallich offered to supply duplicates from his valuable collection to form a nucleus and to act as Honorary Curator. With acceptance of Wallich's proposal, it was decided to establish a Museum to be divided into two sections, one named as archeological, ethnological and technical, the other geological and zoological. Dr. Wallich was appointed Superintendent of the geological and zoological section while the Librarian of Asiatic Society was in charge of the other section.

The vast collections acquired by the Asiatic Society from different sources created accommodation and curatorial problems. In view of the pressing circumstances, the Asiatic Society decided in 1856 to submit a memorandum to the Government of India for the establishment of an Imperial Museum, to which it expressed its willingness to

transfer all their valuable collections, except its library. The 'Indian Mutiny' delayed consideration of this proposal. However, two years later another representation was submitted to the Government reviving the proposal. At this stage due to financial difficulties, this proposal did not meet the favourable consideration although the Government of India recognised its duty to establish such a museum in Calcutta.

The insistence of the Asiatic Society resulted in a memorial to the Secretary of State of India in Council. Thus in May, 1862 the Government of India agreed to the foundation of a Museum in Calcutta. In 1865 it was agreed between the Government of India and the Asiatic Society that the latter should make over to the Board of Trustees for the proposed Museum the zoological, geological, archaeological collections, (the geological collections were ultimately transferred to the Geological Survey of India and the other two collections came to the share of the Museum), and the Government should provide accommodation to the Asiatic Society. This accommodation clause had to be revised subsequently.

Although the Imperial Museum (Indian Museum), Calcutta came into being with the Act No. XVII of 1866 assented to by the Governor General of India in Council on 23rd March, 1866, the buildings of the Museum became ready for occupation in 1875, and then the zoological collections came in the possession of the Museum. With the passage of time and a succession of devoted scientists these collections went on increasing at such a rate that Trustees of the Indian Museum appreciated the importance of the Zoological Survey.

In 1906, Dr. Nelson Annandale, the father and founder Director of the Zoological Survey of India was appointed Superintendent of the Indian Museum. Dr. Annandale was not only the founder of the Zoological Survey of India, he also gave zoologists working on Indian fauna a medium of communication by starting the publication in 1907 of the *Records of the Indian Museum* now called *Records of the Zoological Survey of India* from Volume 62 (1970) onward. These "Records" serve as one of the largest storage of our knowledge about Indian fauna. Such was the accelerated rate of accumulation and study of fauna of the region that within a decade by 1916 the Indian Museum had published 12 volumes of *Records* and six of *Memoirs of Indian Museum*, another monographic series started by Dr. Annandale and now known as *Memoirs of the Zoological Survey of India*. These

volumes contained 241 research papers contributed by both the Indian and the foreign zoologists. The share of Indian workers being 24, regarded as a remarkable achievement, considering the limited number of workers available and also the hardships under which they had to work those days.

Appreciating the importance and necessity of the Zoological Survey, the Trustees of the Indian Museum put forward in March, 1913, a proposal from the Superintendent of its Zoological and Anthropological Section to the Government of India for the formation of a zoological department. The Government of India also had under consideration the desirability of establishing on a sound basis a Zoological Survey of India. Accordingly the Government intimated the Trustees of the Indian Museum their willingness to consider a scheme for establishment of a department, somewhat similar to already existing Botanical Survey of India and asked for further details. Therefore a detailed proposal was submitted by the Trustees in September, 1913.

The September 1913 proposal stated that the field work and zoological research were important part of the official duties of scientists of zoological and anthropological sections of the Museum ; both branches of work had been in the past, of necessity, undertaken in a haphazard manner. The trustees stated that it was time to organize these activities properly and suggested the establishment of a Zoological Survey. This proposal was duly approved by the Board of Scientific Advice and it was forwarded by the Government of India to the Secretary of State in Financial Despatch No. 36 dated 11th December, 1915. Finally the creation of the Zoological Survey of India was announced through the Government of India, Department of Education, Resolution No. 19. Museums dated Simla, the 20th June, 1916 and the Survey came into being on 1st July, 1916, inheriting the zoological collections acquired by the Asiatic Society of Bengal and later by the Indian Museum. The fact that the proposal came up and it was approved during the First World War (1914-1918) shows the importance which was attached to the establishment of the Zoological Survey of India and the field and research activities regarding zoology in India.

Once a proper machinery was set up, the Survey took up the challenging task before it in the right earnest. Organised surveys of

many parts of India and adjacent countries were taken up. The results of study of these collections and other aspects of zoological investigations started producing a stream of research papers in an ever increasing number.

The duties assigned to the Zoological Survey of India were to :

1. Act as guardian of the National Zoological Collection of India.
2. Function as Bureau of Systematic Zoology.
3. Obtain the fullest possible information about the systematic and geographical zoology.
4. Publish zoological literature.
5. Maintain zoological galleries in the Indian Museum.

and

6. Director to act as Zoological Adviser to the Government of India.

It is proposed here to briefly touch upon items given above, although not necessarily in the same order, and to provide a full account of the role the Zoological Survey of India has played in the field of systematic zoology and zoogeography.

The National Zoological Collection of the Zoological Survey has 9,87,173 examples belonging to 48,874 species, including 18,200 type specimens.

The Survey helps research workers in foreign as well as Indian universities, other educational institutions, Government and private organisations, and individuals in identification of zoological specimens.

The zoological galleries of the Indian Museum are one of the chief attractions to 6,18,000 visitors on the average every year. The purpose of these galleries is to furnish a view of common fauna of India and present some of their typical features and record specimens. This has great educative value to children and adults as well as educated people or illiterate masses of the country.

In the capacity of Zoological Adviser to the Government of India, the Director brings to the notice of the Government any zoological problem which calls for attention in this country. Whenever the

problem in question is outside the knowledge of members of the Survey, he tries to obtain some light upon them from the correspondents of the department.

Following series are published by the Survey.

1. *Records of Zoological Survey India*, (Formerly *Records of the Indian Museum*), started in 1907, so far 71 volumes have been published. Frequency annual, contains original research work.
2. *Memoirs of the Zoological Survey of India*, (Formerly *Memoirs of the Indian Museum*), started in 1907, so far 15 volumes have been published, frequency irregular, contain monographic works on the fauna of the region.
3. *Newsletter of the Zoological Survey of India*, started in June 1975. Two volumes, two parts of the third have been published. This journal plays a vital role by helping the zoologists of the Survey to publish short communication quickly.
4. *Bibliography of Indian Zoology*, started in 1958. Frequency annual ; six volumes have been published. Others are through various stages of publications.
5. "*Fauna of India*" (Formerly *Fauna of British India*). So far 98 volumes including second editions, dealing with groups have been published. 26 more volumes have been assigned to departmental or other specialists. The volume on Trematoda by Prof. H. R. Mehra is in press.
6. *Annual Reports of the Zoological Survey of India*. Frequency yearly. Initially triennial, then 10 yearly (1941-51) and subsequently annual.

With the growing awareness and increasingly multifarious developmental activities in the country the Zoological Survey of India has been expanding during Five-Year Plans. In addition to increasing the team of zoologists in its headquarters at Calcutta, following 10 regional stations have been established to intensify the field activities of the Survey.

1. Eastern Regional Station, Shillong (Meghalaya)
2. Western Regional Station, Poona (Maharashtra)

3. Northern Regional Station, Dehra Dun (U. P.)
4. Central Regional Station, Jabalpur (M. P.)
5. Southern Regional Station, Madras (Tamil Nadu)
6. Marine Biological Station, Madras (Tamil Nadu)
7. Desert Regional Station, Jodhpur (Rajasthan)
8. Gangetic Plains Regional Station, Patna (Bihar)
9. High Altitude Field Zoology Station, Solan (Himachal Pradesh)
10. Andaman and Nicobar Regional Station, Port Blair

Teams of experts from headquarters at Calcutta and above mentioned regional stations have conducted about 1000 field surveys in India and other countries with a view to obtain information on various aspects of fauna of those areas. As will be seen from the bibliography given in subsequent pages, 3700 research papers dealing with fauna, zoogeography, systematics and taxonomy, animal population, behaviour, ecology, and other allied fields have been published by the scientists of the Zoological Survey of India. This bibliography includes the work of zoologists of the Survey, research scholars who received their training in its laboratories and in certain cases also by those workers who were provided with the laboratory facilities resulting in the publication of papers dealing exclusively with its material. In preparing this bibliography earlier triennial reports, 10 yearly report and recent annual ones of the Zoological Survey of India formed the basis. It was felt that for various reasons these reports might not be depicting the real achievements of various zoologists. Therefore personal letters were issued to most of the workers whose whereabouts could be obtained, requesting them to send the list of their publications during their stay in the Survey including such papers which were published based on the material of the Zoological Survey of India after leaving this department. Here it must be stated that most of the zoologists responded by sending the list of their papers.

Great help was received from three persons namely, Dr. S. Khera, Joint Director-in-Charge, Dr. O. B. Chhotani and Shri D. P. Bhattacharya who placed at our disposal the cyclostyled and even rough manuscript list of such papers for various periods. The information obtained through these three sources, viz. departmental reports, individual scientists and above named three persons was pooled and checked. Quite frequently it was observed that the details in these

lists did not agree. Under such circumstances the facts were verified from original publications.

Sometimes the results of research are published in abstract forms at an earlier date and the detailed reports appear at a later date in the same or other journals. While dealing with such cases, the priority has been given to the title and date of publication of abstracts, followed by an indication of detail paper mentioned in square brackets giving the reference, volume and its part, year of publication and pages but omitting the title of such detailed papers.

In case any journal was published at a later date than it is meant for, wherever it was noticed, this point has been clarified by giving the actual year of publication after the name(s) of the author(s) and the year for which the journal was meant given after the volume and part number as the case may be.

All the papers have been listed in alphabetical order of the authors. If more than one paper have been published by the author(s), these have been arranged in the alphabetical order of the name of the journal in abbreviated form. Papers published in the same issue have been listed according to page numbers.

The bibliography part is followed by index comprising three (1) dealing with analytical listing of papers, dealing with various countries, (2) Indian states and (3) the whole of India as one unit, countries and Indian states appearing in alphabetical order. For this purpose papers have been classified to class level except for insects which have been arranged order-wise. In certain cases exceptions may be noticed.

Keeping in view the Diamond Jubilee year of the Zoological Survey of India, only papers published till 30th June, 1976 have been included in the main bibliography. However, the addenda I and II contain the papers published subsequently for upto-dating the list. The serial number of papers in the addenda is in continuation of the main bibliography.

In spite of our best efforts to make the bibliography exhaustive and accurate, we must concede that omissions or mistakes may be found by informed readers. We will greatly appreciate such information.

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Isoptera : 532, 536, 537, 1826, 2623, 2657, 2686, 2694, 2703, 2708, 2710, 2711, 2730, 2738, 3802, 4118, 4119

Mallophaga : 1675, 1676, 3532, 3972

Hemiptera : 54, 56, 62, 63, 74, 768, 1529, 2087, 2319, 2338, 3275, 3284, 3487, 3600, 3684, 3822, 3827, 3952, 4258

Thysanoptera 334, 1672, 3728, 3731

Lepidoptera : 214, 220, 221, 859, 1474, 1520, 3288, 3431, 3685, 3732, 3734, 3737, 4257

Diptera : 523, 1433, 1439, 1440, 1441, 1442, 1444, 3512, 3513, 3925, 3926, 3927, 3928, 3929, 3930, 3933, 3935

Siphonaptera : 2825

Hymenoptera : 932, 3924, 3943

Coleoptera : 721, 722, 823, 1461, 1462, 1464, 1467, 1477, 1496, 1499, 1505, 2348, 2351, 2352, 2353, 2355, 2548, 2644, 3320, 3322, 3324, 3325, 3326, 3328, 3329, 3330, 3339, 3346, 3355, 3468, 3688, 4042, 4121, 4123, 4124, 4139, 4140, 4141, 4143, 4263

MOLLUSCA

General : 2250

Gastropoda : 126, 127, 131, 132, 136, 140, 151, 167, 194, 199, 200, 202, 203, 204, 212, 795, 2231, 2236, 2242, 2266, 2368, 2369, 2430, 2432, 2452, 2988, 4027, 4091

Pelecypoda : 725, 2216, 2232, 2233, 2245, 2251, 2252, 2270, 2274, 2287, 2304, 3973

ECHINODERMATA

Asteroidea : 4176

Holothuroidea : 4041, 4100

CHORDATA

Pisces 116, 154, 237, 240, 486, 934, 941, 947, 948, 952, 956, 963, 966, 971, 994, 1008, 1015, 1017, 1027, 1033, 1054, 1063, 1081, 1084, 1085, 1090, 1103, 1104, 1113, 1135, 1136, 1137, 1159, 1214, 1272, 1314, 1315, 1326, 1355, 1361, 1365, 1375, 1377, 1380, 1381, 1382, 1383, 1384, 1385, 1387, 1388, 1393, 1398, 1401, 1402, 1403, 1404, 1408, 1409, 1410, 1738, 1739, 1844, 1849, 1952, 1854, 1859, 1864, 1866, 1867, 1869, 1871, 1879, 1880, 1881, 1883, 1889, 1891, 1893, 1898, 1899, 1900, 1902, 1904, 1907, 1908, 1990, 1995, 2000, 2115, 2254, 2481, 2855, 2996, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3008, 3009, 3011, 3012, 3017, 3021, 3023, 3025, 3026, 3028, 3033, 3034, 3037, 3038, 3040, 3041, 3048, 3049, 3050, 3077, 3085, 3092, 3096, 3103, 3399, 3402, 3403, 3406, 3408, 3414, 3430, 3505, 3506, 3556, 3651, 3652, 3653, 3655, 3656, 3657, 3658, 3674, 3679, 3698, 3738, 3791, 3842, 3846, 3907, 3910, 3911, 3914, 4021, 4096, 4157, 4208, 4209, 4210, 4212, 4214, 4238, 4240, 4243, 4284, 4285

Amphibia : 113, 429

Reptilia : 429, 2059, 2141, 2834, 3622, 3714, 4054

Aves : 350, 351, 352, 353, 354, 356, 357, 358, 359, 368, 369, 370, 372, 373, 376, 381, 401, 461, 2002, 2008, 2017, 2027, 2035, 2560, 2595, 2721, 3998, 4035, 4125

Mammalia 37, 38, 42, 43, 50, 397, 416, 473, 640, 750, 1563, 1565, 1566, 1582, 1586, 1587, 1766, 2665, 2869, 2871, 2872, 2873, 2879, 3234, 3239, 3427, 3475, 3718, 3719, 3786, 3788, 3946, 3948, 4025, 4166

4. MORPHOLOGY, ANATOMY AND TERATOLOGY

PROTOZOA

1757, 1758

PLATYHELMINTHES

Trematoda : 2071, 3488, 3489

Cestoda : 880, 881, 882

NEMATHELMINTHES

Nematoda 2898, 3394

KINORHYNCHA

2403

ANNELIDA

Oligochaeta : 1457

Hirudinea : 3794

ARTHROPODA

Arachnida : 835

Crustacea : 544, 570, 1470, 1637, 1638, 1639, 1640, 2372, 3190, 3193, 3199, 3206, 3209, 3214, 3611

INSECTA

General : 2325, 2556

Collembola : 1921, 1924, 1925, 1979

Odonata : 3301, 4082

Orthoptera 276, 277, 283, 284, 828, 857, 858, 1557, 2563, 2575, 2577, 2578, 2580, 2583, 2586, 2596, 2597, 2620, 2624, 2632, 2669, 2671, 2672, 2674, 2675, 2676, 2677, 2678, 2719, 4150, 4261

Dermaptera : 2969

Isoptera : 2640, 2630, 2639, 2649, 2651, 2652, 2659, 2687, 2692, 2707, 2710, 2713, 2724, 2728, 2729, 2735, 2737, 3603, 3806, 4115, 4116

Hemiptera : 279, 280, 746, 1430, 1434, 1666, 2001, 2356, 2460, 2464, 2524, 3248, 3298, 3487

Lepidoptera 218, 224, 3432, 3580, 4058

Diptera : 988, 989, 2173, 2212, 2217, 2469

Coleoptera 1490, 1495, 2201, 2203, 2209, 2351, 2352, 2353, 2355, 3318, 3336, 3697

Chilopoda : 2555

Diplopoda : 2828

MOLLUSCA

Gastropoda : 21, 81, 173, 174, 2213, 2243, 2256, 2269, 2272, 2428, 2433, 2471, 2781

Pelecypoda : 20, 30, 723, 792, 2216, 2219, 2225

CHORDATS

Pisces : 230, 231, 236, 239, 241, 243, 250, 743, 939, 943, 944, 946, 951, 965, 980, 986, 1022, 1049, 1053, 1075, 1125, 1135, 1254, 1258, 1260, 1321, 1335, 1373, 1399, 1417, 1731, 1746, 1747, 1823, 1838, 1848, 1906, 1916, 1984, 2121, 2122, 2124, 2126, 2223, 2344, 2345, 2384, 2392, 2479, 2488, 2784, 2862, 2864, 2884, 2992, 3072, 3075, 3076, 3077, 3078, 3079, 3082, 3084, 3087, 3095, 3098, 3099, 3100, 3101, 3102, 3367, 3368, 3371, 3381, 3383, 3405, 3454, 3509, 3593, 3675, 3791, 3906, 4128, 4283

Amphibia : 267, 268, 269, 270, 272, 274, 935, 945, 957, 997, 1018, 2214, 4071

Reptilia 2, 14, 15, 19, 2490, 2491, 3074, 3215, 3370, 3772, 4202

Aves : 266, 361, 367, 379, 392, 400, 410, 411, 412, 413, 414, 1594, 1608, 1723, 1724, 2569

Mammalia 16, 33, 36, 39, 52, 328, 457, 460, 475, 762, 1560, 1593, 1606, 1609, 1649, 1651, 1653, 1655, 1753, 1755, 1773, 2366, 2714, 2876, 3258, 3537, 3789

5. BIOLOGY AND BIONOMICS

(Including Physiology, Development, Embryology, Life-history and other biological processes)

General : 1004, 3466

PROTOZOA

300, 302, 1559, 1751, 3497, 3599, 4001

Coelenterata : 2429

PLATYHELMINTHES

Trematoda : 873, 2043, 2061, 2064, 2056, 3492, 3570, 3573, 3592, 4018

NEMATHELMINTHES

Nematoda : 1629, 2138, 2139, 3257

ARTHROPODA

Arachnida : 296, 899, 901 2571, 3135, 3569, 3574

Crustacea : 860, 1030, 1642, 1648, 2144, 2405, 2532, 3200, 3206

Insecta

General : 993, 1525, 2317, 2318, 2320, 2332, 2553, 2556, 2570, 2734, 2815, 3277, 3307, 3310

Thysanura : 934

Collembola : 1930, 2978, 2980, 3479

Odonata : 3527, 3954, 3958, 3959, 3961

Orthoptera : 2573, 2582, 3758, 3759

Dermaptera : 244

Isoptera : 527, 528, 1556, 2610, 2625, 2653, 2654, 2658, 2662, 2725, 2726, 2727, 3993, 4111

Mallophaga : 1678

Hemiptera : 434, 1760, 1927, 2626, 2976, 2977, 3482, 3485, 4255

Lepidoptera : 1032, 1761, 2327, 2993, 3308, 3309

Diptera : 911, 914, 2215, 2549, 3051, 3053, 3057

Hymenoptera : 551, 1669

Coleoptera : 1472, 1509, 2202, 2329, 2642, 2644, 2645, 2650

Thysanoptera : 3728, 3730, 4052

Diplopoda : 2828

MOLLUSCA

Gastropoda : 22, 23, 80, 449, 450, 451, 1692, 2080, 2082, 2119, 2244, 2272, 2309, 2310, 2346, 2402, 2444, 2456, 2471, 2781, 3450, 3571, 3572, 3592, 3704, 3710, 4044, 4045

Pelecypoda : 724

ECHINODERMATA

Echinoidea : 3950, 3951

CHORDATA

Thaliacea : 710

Pisces : 227, 228, 232, 865, 960, 1011, 1015, 1024, 1041, 1046, 1048, 1057, 1096, 1100, 1129, 1174, 1284, 1347, 1348, 1361, 1362, 1418, 1419, 1420, 1421, 1992, 2123, 2125, 2483, 2880, 2928, 2995, 3410, 3739, 4022, 4077, 4080

Amphibia : 448, 463, 1646, 3121, 3413, 4071

Reptilia : 271 292, 293, 3183, 3705, 3773, 4055, 4144, 4147

Aves : 871, 1694, 1695, 1696, 1697, 1698, 1699, 1701, 1702, 1703, 1704, 1705, 1706, 1713, 1714, 1716, 1719, 1720, 1722, 1730, 2012, 2747, 3032, 3523, 3538, 3539, 3566, 3583, 3989, 3990 4036

Mammalia 1601, 2878, 3429, 3722, 3723, 3784, 4078, 4065

6. ECOLOGY

(Including Pollution)

General 141, 145, 148, 157, 187, 366, 380, 826, 831, 955, 978, 1003, 1004, 1005, 1012, 1020, 1023, 1029, 1059, 1141, 1243, 1244, 1555, 2028, 2033, 2117, 2187, 2229, 2235, 2289, 2406, 2409, 2410, 2411, 2417, 2425, 2541, 2598, 2782, 2783, 2815, 2816, 2818, 3478, 3594, 3811, 3980

Protozoa : 2321

Nematoda : 3683

Chaetognatha : 2931, 4180

Brachiopoda : 3640

Echiuroidea : 3898

ARTHROPODA

Crustacea : 168, 612, 617, 620, 2525, 2526, 2527, 2533, 2542, 3813, 4026

INSECTA

General 1019, 1506, 1785, 1791, 1792, 1793, 1794, 1795, 1948, 2326

Collembola : 1930, 4031

Ephemeroptera : 549

Odonata : 2322, 3953

Isoptera : 163, 541, 1500, 1522, 1556, 1741, 2610, 2625, 2646, 2653, 2658, 2659, 2661, 2697, 2733

Hemiptera : 1552, 3279, 3851

Lepidoptera : 1454, 1482

Diptera : 682, 1450, 2441, 2331

Thysanoptera : 4052

MOLLUSCA

Gastropoda : 109, 123, 2082, 2447, 2471, 3647, 3711

Pelecypoda : 2365, 4026

ECHINODERMATA

Echinoidea : 3813

CHORDATA

Pisces 1119, 1184, 1268, 1270, 1290, 1298, 1305, 1354, 1361, 1415,

2118, 2323, 2817, 3086, 4017, 4024

Amphibia : 429

Reptilia : 293, 429, 2111, 3143, 3148, 3622

Mammal 34, 37, 39, 585, 754, 782, 1773, 2168, 2859, 3425

7. ANIMAL POPULATION

Protozoa 301, 3444, 3761

Trematoda : 3873, 4184

INSECTA

General : 2334, 2587, 2668

Orthoptera : 283, 284, 2578, 2581, 2597, 2605, 2643

Isoptera : 2689

Hemiptera : 3517

Diptera : 685, 686, 687

Thysanoptera : 3729, 3730

Mollusca : 2194, 3417

Pisces : 238

Aves : 256

Mammalia 760, 2075, 3465, 3716, 3814, 4069

8. ANIMAL BEHAVIOUR

Turbellaria 4112

ARTHROPODA

Arachnida : 3083, 3109, 3124, 3290, 3979, 4098

Decapoda 3813, 4026

Gstracoda : 3812

Insecta :

Collembola : 1928

Odonata : 1663, 1957, 1958, 1959, 1970, 2211, 3530, 3563, 3961, 4098

Orthoptera 285, 2554, 2572, 2574, 2585, 3518, 3519, 4260

Dictyoptera : 2336

Hymenoptera : 4061

Isoptera 534, 535, 540, 1827, 2697, 2727, 3805

Lepidoptera : 745, 1759, 3144, 3302

Coleoptera 1479, 1498, 2641, 4264

ECHINODERMATA

Echinoidea 3813

MOLLUSCA

967, 979, 1360, 1691, 1969

CHORDATA

Pisces : 1021, 1026, 1045, 1050, 1115, 1129, 1133, 1359, 2306, 2451, 3915

Amphibia : 432, 463, 1994, 3584

Reptilia 286, 304, 432, 581, 583, 729, 3208, 3442, 3577, 3771, 3775

Aves : 256, 299, 751, 1397, 1607, 1693, 1710, 1711, 1715, 1721, 1725, 1729, 2009, 2015, 2020, 2024, 2031, 2034, 2561, 3555, 3978, 3990

Mammalia : 32, 297, 753, 754, 757, 875, 987, 1561, 1576, 1578, 1581, 1584, 1597, 1603, 1610, 1612, 1615, 1657, 1748, 1762, 2036, 2060, 2168, 2361, 2367, 2584, 2664, 2718, 2739, 2748, 3231, 3453, 3790, 3814, 3976

9. AGRICULTURAL ZOOLOGY

Protozoa : 3761

ARTHROPODA

Insecta :

Orthoptera 2554

Hemiptera : 55, 57, 59, 60, 61, 65, 766, 769, 772, 790, 1502, 1503, 2973, 3276, 3296

Isoptera : 3803

Lepidoptera : 1454

Thysanoptera : 3727

Arachnida : 888, 891, 892, 897, 898, 900, 902, 904, 905, 906, 907, 2475, 2751, 2850

Mollusca : 3647, 3701

Mammalia : 3850

10. PLANT NEMATOLOGY

253, 254, 255, 522, 1631, 1635, 2136, 2137, 2138, 2139, 2377, 2898, 2909, 3242, 3257, 3438, 3459, 3615, 3636, 3746, 3748

11. ECONOMIC ZOOLOGY

General : 1043, 1181, 1481, 3033, 3264, 3278, 3384

Insecta :

General : 1671, 1681, 2551, 2829

Isoptera : 1522, 2606, 2646, 2647, 2648, 2688, 2696, 2709, 2733, 3993

Hemiptera : 57, 59, 60, 61, 65, 766, 769, 772, 790, 1480, 1502, 1503, 2973, 3276, 3286, 3296, 3311

Lepidoptera : 1454, 4256

Thysanoptera : 3727

Coleoptera : 435, 1484, 4142

Mollusca : 156, 1246, 2343, 2446, 2504, 2631, 3422, 3647

Echinodermata : 4012

Pisces : 493, 557, 573, 1047, 1115, 1119, 1163, 1188, 1220, 1228, 1245, 1865, 2443, 3553

Amphibia : 2103

Reptilia : 4, 27, 2100, 2103, 2106, 3442

Aves : 2010, 2023, 3576

Mammalia : 1240, 3639, 3850, 4069

12. NATURAL RESOURCES

General : 864, 1043, 1216, 3233, 4024

Arachnida : 1690

Pisces : 569, 1128, 1143, 1170, 1183, 1189, 1204, 1215, 1225, 1331, 1352, 1884

Amphibia : 2107

Mammalia : 3447

13. FISHERIES

125, 227, 228, 232, 238, 493, 557, 569, 571, 572, 573, 725, 727, 940, 981, 1014, 1045, 1047, 1050, 1051, 1070, 1071, 1072, 1073, 1092, 1097, 1098, 1105, 1106, 1107, 1108, 1115, 1116, 1117, 1119, 1126, 1127, 1128, 1133, 1134, 1140, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1168, 1170, 1171, 1172, 1173, 1174, 1175, 1177, 1178, 1179, 1180, 1182, 1183, 1187, 1188, 1189, 1190, 1191, 1195, 1196, 1197, 1201, 1203, 1204, 1213, 1215, 1218, 1220, 1224, 1225, 1226, 1228, 1230, 1231, 1232, 1234, 1238, 1239, 1245, 1249, 1252, 1263, 1268, 1270, 1271, 1276, 1277, 1282, 1283, 1287, 1294, 1295, 1296, 1298, 1299, 1300, 1303, 1305, 1308, 1331, 1346, 1348, 1352, 1353, 1354, 1359, 1405, 1415, 1416, 1418, 1455, 1799, 1813, 1815, 1816, 1817, 1818, 1862, 1868, 1870, 1884, 1885, 1982, 2112, 2114, 2116, 2174, 2175, 2192, 2305, 2306, 2323, 2333, 2358, 2387, 2394, 2443, 2446, 2448, 2454, 2760, 2763, 2765, 2789, 2791, 2881, 2940, 2950, 2951, 3093, 3354, 3364, 3380, 3382, 3388, 3389, 3553, 3672, 3701, 3710, 3916, 4005, 4016, 4017, 4024, 4104, 4285

14. MARINE BIOLOGY AND OCEANOGRAPHY

General : 82, 145, 211, 607, 608, 610, 614, 623, 1302, 1843, 1892, 2117, 2324, 2406, 2409, 2410, 2411, 2417, 2425, 2782, 2790, 2796, 2800, 2809, 3554, 3811

Coelenterata :

Hydrozoa : 604, 621, 622, 2113, 2401, 2419, 2421, 2429, 2750, 3677

Scyphozoa : 2439

Actinozoa : 1896, 2431, 2539, 2540, 2541, 2543, 2544, 2808, 2991, 3557,

Trematoda 489, 490, 495, 496, 516, 1636, 3502, 3896

Gastotricha : 741, 2408, 2420, 2424

Kinorhyncha 2403

Brachiopoda : 2990

Chaetognatha : 2931, 3641, 4180

Echiuroidea : 2226

ARTHROPODA

Pycnogonida : 618, 2759

Crustacea :

General : 570

Ostracoda 3812

Copepoda : 2413, 2426, 2533, 2542, 2799, 2810, 3262, 3265

Thoracica : 168, 591, 595, 596, 597, 600, 602, 603, 2314

Isopoda : 617, 324

Amphipoda : 620, 2882, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2994

Decapoda : 559, 612, 2313, 2315, 2545

Stomatopoda : 797

Tardigrada : 2412

MOLLUSCA

General : 728, 3122

Gastropoda : 2493, 2496, 2497, 2502, 2503, 2513, 2983

Pelecypoda : 724, 2359, 2360, 2500

ECHINODERMATA

Asteroidea : 4175, 4176

CHORDATA

Asciadiacea : 2786

Thaliacea : 710

Pisces : 230, 1026, 1232, 1238, 1287, 1844, 1879, 1880, 1881, 1889, 1898, 2114, 2384, 2883, 3011, 3012, 3014, 3021, 3026, 3027, 3029, 3046, 3556, 3739, 4101, 4148, 4157, 4214, 4215, 4218

15. PREHISTORIC ZOOLOGY

245, 246, 247, 248, 249, 459, 817, 1251, 1267, 1271, 1288, 1292, 1296, 1300, 1363, 2149, 2150, 2151, 2153, 2155, 2156, 2157, 2158,

2159, 2160, 2161, 2162, 2164, 2165, 2166, 2167, 2169, 2171, 2506, 2517, 3435, 3436, 3437, 3857, 3858

16. PALAEOZOOLOGY

General : 758, 868, 1114, 1266, 2300, 2840

Crustacea : 3210, 3211

Mollusca : 135, 2224, 2255, 2506, 3228, 3535, 3973

Echinodermata : 876

Pisces : 1069, 1076, 1077, 1083, 1093, 1095, 1099, 1111, 1112, 1262, 1169, 1236, 1293, 1322, 1323, 1325, 1843, 1847, 2185, 3225, 3881, 3882

Amphibia : 755

Mammalia : 763, 2746

17. MEDICAL AND VETERINARY ZOOLOGY

Protozoa : 4060

Trematoda : 488, 509, 511, 512, 513, 517, 1926, 1976, 2051, 2052, 2059, 2064, 2077, 2772, 3260, 3874

Nematoda : 513, 517, 703, 709, 2051, 2078, 2854, 3250, 3251, 3252, 3253, 3255, 3256, 3259

Mollusca : 1246

Pisces : 1070, 1092, 1188, 1239, 1245, 1277, 1346, 1355, 1862, 1870, 2114, 2305

Reptilia : 3705, 4055

Aves : 2823

18. PARASITOLOGY

General : 506, 507, 512, 513, 514, 770, 1149, 2823

Protozoa :

General : 1559

Mastigophora : 302, 303, 626, 627, 628, 629, 630, 631, 632, 2129, 3581, 3817, 4000, 4003, 4004, 4005, 4251

Ciliata : 42, 420, 588, 625, 633, 1771, 1772, 1915, 2042, 2128, 3492, 3548, 3568, 3579

Sporozoa : 300, 589, 1749, 1750, 1751, 1752, 1754, 1763, 1764, 1765, 1767, 1768, 1769, 1770, 2770, 3547, 3550, 3582, 4060, 4114

Platyhelminthes

Trematoda : 210, 265, 489, 490, 491, 495, 496, 498, 499, 500, 501, 504, 509, 511, 516, 517, 518, 708, 735, 736, 737, 862, 1636, 1687, 1676, 2044, 2045, 2046, 2048, 2053, 2054, 2056, 2057, 2058, 2061, 2063, 2066, 2067, 2068, 2069, 2072, 2073, 2772, 2774, 2775, 2776, 2777,

2778, 2802, 2804, 2933, 2934, 2935, 2937, 2938, 2939, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2952, 3260, 3492, 3496, 3497, 3498, 3502, 3570, 3642, 3643, 3686, 3687, 3874, 4183

Cestoda : 521, 819, 880, 882, 2049, 2055, 2062, 2926, 2929, 2930, 3495

Nemathelminthes :

Nematoda : 252, 253, 254, 491, 525, 703, 709, 1631, 1635, 1743, 1744, 2136, 2137, 2138, 2139, 2377, 2854, 2898, 2902, 2903, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2922, 2924, 2925, 3218, 3242, 3250, 3251, 3252, 3253, 3254, 3255, 3256, 3257, 3259, 3428, 3438, 3459, 3615, 3683

Acanthocephala : 634, 635, 690, 691, 694, 695, 696, 697, 698, 699, 700, 701, 2200, 2755, 2758, 2920, 2921, 2923, 3494

Annelida :

Hirrodinea : 466, 468

Arthropoda :

Arachnida : 778, 1801, 1803, 1804, 2753, 2754, 2824, 2826, 3690

Crustacea :

Copepoda : 616, 2374

Thoracica : 609

Isopoda : 545, 546, 558, 4095

Insecta :

General : 770, 3395, 3397

Mallophaga : 1673, 1674, 1676, 1677, 1678, 1679, 1680, 1682, 1683, 1684, 1686, 3533, 3968, 3972

Siphunculata (=Anoplura) : 2723

Hemiptera : 1250, 2626, 2976, 2977

Isoptera : 3817

Lepidoptera : 796, 1474, 1685, 2183

Diptera : 3691, 3692, 3693

Siphonaptera : 2825

Hymenoptera : 530, 531, 913, 1455, 1672, 1777, 1778, 1779, 1781, 1782, 1784, 1785, 1787, 2663, 2981, 3314

19. SOIL ZOOLOGY

301, 307, 309, 310, 313, 319, 327, 3444, 3746, 3761 3762

20. WILD LIFE

General : 28, 75, 278, 406, 779, 1028, 1044, 1273, 1274, 1301, 1596, 1602, 1611, 1707, 1712, 1717, 1735, 1943, 2016, 2019, 2302, 2600, 2603, 3423, 3448, 3477, 3554, 3712, 3721, 3773, 3980, 4024, 4033,

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ADDENDUM—II
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