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VENULATA NIGAM

ZOOLOGICAL SURVEY OF INDIA

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Bibliography of Rajasthan Fauna

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INTRODUCTION

The State of Rajasthan, situated in North-Western part of the Indian Union, lies approximately between 23° 10' and 30° 30' N. latitudes and 69° 50' and 70° 25' E. longitudes. The second largest State of India is spread over 3.42.239 sq. kms. and it is divided into two unequal, climatically different halves by the Aravalli mountain which cuts across the State diagonally in a south-west to north-east direction. The north western portion forms part of the Thar or the Great Indian Desert while the south-eastern portion forms the hilly and wetter zone.

The State exhibits a wide variation in climate. Whereas it is hot in summer with average temperature ranging from 17°C to 45°C, it is fairly cold during winter, 70°C to 30°C. In certain years the mercury dips down to 0°C in the desert region. A wide variance in the rainfall pattern in Rajasthan is observed, 100 m m in extreme west to 1500 mm in the south eastern region of Jhalawar and Banswara districts. As a consequence a number of bioclimatological zones occur in the state. The arid, semi-arid regions exhibit a variety of biota exhibiting Ethiopian, Saharan affinities and the sub-humid zone is inhabited by Himalayan Peninsular and Malayan elements.

Associated with different Vegetation types are the animals representing various classes and biogeographical regions. The past history of animal life inhabiting Rajasthan is also quite interesting. The Lion, which is struggling for its existence today in the Gir forest in Gujarat was found in the southern plains of this State till the turn of the twentieth century. The wild ass, at present localised in the Little Rann of Kutch, was commonly found in Jaisalmer and Bikaner districts. The majestic tiger commonly occurred on the southern Aravallis and eastern Rajasthan. Large herds of black buck and gazelles abound the range lands of hte State. Their populations have been drastically depleted along with the escalation of human and livestock population. The developmental activities are not always eco-friendly. However, the establishment of a large number of protected areas has infused hope for environment and wildlife protection.

For a variety of reasons the fauna of Rajasthan has hitherto remained poorly studied, and the lacunae in our knowledge in this respect are especially marked in the case of the invertebrate fauna. In the later part of the 19th century and early part of the 20th century, some references of fauna, generally incidental are found in the travel accounts of foreigners. Birds, however, received considerable attention by a number of authors. R.M. Adam (1873-74), Butler (1875-76), Hume (1878) and A. Adam (1899) gave a fairly comprehensive account of the more common mammals, birds, insects and helminthes of the drier parts of western Rajasthan. The account of the more common vertebrates given in various Imperial Gazetteers also deserves mention (Vide "Imperial Gazetteers of India", 1908, Watson, 1904 and Erskine, 1908 and 1909).

It was probably the organisation of the symposium on "Rajputana Desert" by the National Institute of Science (now INSA) in 1952 which focussed attention on the paucity of scientific information in the region. A number of organisations were established. Anti-locust Department, Central Arid Zone Research Institute, Several Universities, State Departments of Agriculture and Fisheries further helped in creation of knowledge on the faunal diversity of Rajasthan. The faunal exploration was given further impetus when at a time, six Regional Stations of the Zoological Survey of India were established during second Five Year Plan (1959-60). The Desert Regional Station (DRS), Jodhpur, was one of them.

The ZSI thus brought out a number of publications on the faunistic evaluation :

1. Fauna of Rajasthan, India Pt.I. General Introduction, with a list of collecting localities and a Bibliography of Rajasthan by M.L. Roonwal in 1963.
2. Fauna of Rajasthan, India Pt.II. Protozoa (No.1) by K.K. Mahajan in 1963.
3. Fauna of Rajasthan, India. Pt. 10. Protozoa (No.2) by K.K. Mahajan in 1965.
4. Fauna of Rajasthan, India. Pt.I. Protozoa (No.3) by K.K. Mahajan in 1965.
5. Fauna of Rajasthan, India, Mollusca. Pt. 3. by H.C.. Ray and A. Mukherjee in 1963.
6. Fauna of Rajasthan, India, Pt. 4. A Checklist of RajasthanTermite (Insecta : Isoptera) by M.L. Roonwal and Geeta Bose in 1963.
7. Fauna of Rajasthan, India, Pt.5. Aquatic beetles (Insecta : Coleoptera : Dytiscidae) by T.G. Vazirani in 1964.
8. Fauna of Rajasthan, India, Pt. 6. Amphibia by M.R. Mansukhani and T.S.N. Murthy in 1964.
9. Fauna of Rajasthan, India, Pt.7. Fishes by A.K. Dutta and N. Majumdar in 1964.
10. Fauna of Rajasthan, India Pt.8. Trematoda by P.D. Gupta in 1964.
11. Fauna of Rajasthan, India. Pt.9. Cestoda by R.P. Mukherjee in 1964.
12. Fauna of Rajasthan India, Pt.II (1965) Crustacea Cladocera by S. Biswas in 1965.
13. Fauna of Rajasthan, India. Pt.3 (No.2) Mollusca by P.D. Gupta in 1973.
14. Fauna of Rajasthan, India, Crustacea Ostracoda by Maya Deb in 1973.
15. Fauna of Rajasthan, India. Neuroptera by S.K. Ghosh in 1977.
16. Fauna of Rajasthan, India. Reptilia by S. Biswas and D.P. Sanyal in 1977.
17. Fifty years of (1920-1969) faunistic survey of Rajasthan India) by P.D. Gupta in 1975.
18. Fossil Fauna of Rajasthan by P.D. Gupta in 1977.

Besides these publications under the Fauna of Rajasthan series, several other groups of animals were studied by the Zooligists of Zoological Survey of India and other Institutions. A broad scanning through the literature indicates that the following faunistic elements have been studied in detail.

PROTOZOA

In the year 1936 and 1938, Bhatia has reported Ciliophora and Sporozoa respectively from this area. Misra (1960) and Mahajan (1962) have contributed to the knowledge on Protozoa from the area. Fossil Foraminifera from Bikaner district have been studied by Jacob and Sastri. Perusal of available literature reveals that 43 species of Protozoa, 42 species free living protozoa and 1 species parasitic have so far been reported from this region. Srivastava and Bhanotar (1985), Mathur and Yatindra (1988) have also reported the new species from this area.

PORIFERA, COELENTERATA, BRYOZOA

In the field of Porifera, Coelenterata and Bryozoa, a number of fossils were reported by Subbotina, Datta and Srivastave (1960), Lubimova, Guha and Mohan (1960) and Shah (1963) from Jaisalmer. Soota and Saxena (1983, 1991) reviewed the freshwater sponges of India including the forms of Desert region.

PLATYHELMINTHES

Gupta (1970) has described the first major account of trematodes from Rajasthan. In the present account 15 species belonging to 14 genera and 9 families are reported. Nama (1974-1987) Wason and Johnson (1977-79), Nama and his colleagues reported few more trematodes from arid zone of Rajasthan. Hafeezullah recorded 6 species from Jodhpur. Approximately 35-38 species of trematodes have been reported from arid and semi-arid zones of Rajasthan.

Mukherjee (1970) recorded 26 species of cestodes belonging to 16 genera from 20 vertebrate hosts from arid zone of Rajasthan. Gupta (1970), Nama and his colleagues (1972-90) and Johnson and his colleagues (1977) reported some more cestodes from vertebrates. Hafeezullah (1996) recorded 6 species under 5 genera. Approximately 45-50 species of cestodes have been recorded from Rajasthan.

NEMATHELMINTHES

Baylis (1936, 1939) has mentioned many species of nematodes from Rajasthan. A root-knot species of nematode on tomato was described by Arya (1957) from Jodhpur district. Khera and his students (1966-71), Swarup and Sethi (1968, 1971), Yadav and his students (1974-77), Mathur and his students (1974-77), Mulk and Jairajpuri have carried out substantial work on this group. Dr.Q.H. Baqri (1994) reported 120 species of plant

and soil nematodes from the Rajasthan. Review of Nematological litterature from India reveals that about 8% nematode fauna of India has been reported from Rajasthan.

ANNELIDA

12 species of earthworms and 14 species of leeches have been reported. Earthworms were mostly recorded from eastern and western regions of Rajasthan. A few species of earthworms were recorded by Stephenson (1923). Harding and Moore (1927) described leeches from Rajasthan. Mahajan and Chandra (1976) reported 10 species of leeches from Rajasthan. Soota and Saxena (1984) and Sawyer (1986) studied the leech fauna and their distribution.

MOLLUSCA

Very little is known about the molluscan fauna of Rajasthan except causal references by Henley and Theobald (1976). Nevill (1878. 1884), Preston (1912, 1915), Gude, 1914), Germain (1921), Annandale and Rao (1925), and Prasad (1925). Comprehensive account of Rajasthan molluscs was provided by Ray and Mukherjee (1969). Subba Rao (1996) reported 28 species, 17 of which were new records.

ECHINODERMATA

The echinoids (Fossils) of Jaisalmer have been studied by Singh (1955), Sahni and Bhatnagar (1958) and Holfman (1963), Gee (1931), West (1949) and Pascoe (1959) reported a few species from March in Bikaner district.

ARTHROPODA

Crustacea

Imprey (1862) was the first author to deal with fossil from this state. Lindberg (1942) has studied the Crustacea of Jodhpur in Rajasthan. Barooh (1946) reported fossil Ostracoda from Nagurda in Barmer district. Jacob and Sastri (1950) studied fossil Ostracoda found in Fuller's earth at March near Bikaner. Tiwari (1951-1966) and Maya Deb (1972) studied the Ostracods of Rajasthan.

Coleoptera

Beetles are commonly found in the desert but have been very poorly studied. Vazirani (196-70) has studied aquatic beetles. Kapur and Bhowmik (1966) recorded three species of Coccinellidae. Saha (1979) while revising Indian blister beetles, has recorded seven species from Rajasthan. Approximately 110 species of Coleoptera have been recorded.

Isoptera

This is one of the most fascinating group of insects. Termites are known to cause

extensive damage to wood in forests. Adam was the first to mention about termites in the western portion of Than Desert. Roonwal and Bose were the first to report 19 species and subspecies from Rajasthan. Roonwal and Verma (1977) raised the number of species to 32 from Rajasthan. Verma and Purohit (1997) added 2 more species. Rathore (1999) has also made a good account on breeding biology in this field. Rathore reported 6 more species from the State to raise the number of species to 40.

NEUROPTERA

Ghosh (1977) has reported 13 species from Rajasthan.

MALLOPHAGA

Laxminarayan (1981) has reported 40 species of chewing lice from birds of Rajasthan.

Odonata

Adam (1899), Agarwal (1959), Bose & Mitra (1976), Fraser (1933-36), Prasad and Thakur (1981) have studied the Odonates. Thakur, Tyagi and Miller (1991) have reported 23 species from Rajasthan.

Lepidoptera

This group has been fairly explored as compared to other groups. The major contributors are Arora (1973), Kushwaha (1960-64), Macpherson (1927), Mathur and Champakavalli (1961), Pruthi Nearly 300 species have been recorded from Rajasthan.

Hymenoptera

Chhotani and Ray (1976) in a study on Hymenoptera of Rajasthan have recorded 46 species. Hayat (1975, 1977a-b) has recorded 19 species of Chalcids from this area. 32 species of Ants (Formicidae) have been recorded from Rajasthan.

Hemiptera

A persual of literature reveals that a total of 74 species of Hemiptera are known from the Thar Desert area (Buckton, 1899; Distant, 1902-1918; Kushwaha and Sharma, 1961; Raychaudhury and Ghosh 1959, 1962; Joseph, 1961; Joshi and Mathur, 1967 ; Bindra and Sekhon, 1969; Ghosh, 1970; Kushwaha, 1977; Kurl and Misra, 1979; Verma, 1980 Mathur, 1976; Rana and Bish, 1987; Thirumalai, 1989; Jasudasan and David, 1991).

PISCES

Datta and Majumdar in their 'Fauna of Rajasthan' listed 75 species from this region. Mathur, 1952 ; Hora and Mathur, 1952; Krishna and Menon, 1958 also contributed to the studies on fishes. Mathur and Yazdani, 1969, 1973 have studied the fish fauna and recorded a cyprinodont fish for the first time from Jodhpur district. Johal and Dhillon (1981) gave an account of Ichthyofauna of Ganganagar district of Rajasthan. Johal,

Chahal, Tandon, C.R. Ajithkumar, 1998 gave consolidated account of the ichthyofauna of Rajasthan State and reported 95 species of which 15 sp. were recorded for the first time from the State.

AMPHIIA

McCann (1932) reported some amphiia from this area. Mansukhani and Murthy (1964), however, reported a total of 8 species from Rajasthan.

REPTILES

Wall (1922) reported the occurrence of reptiles near Jaipur and gave a handlist of snakes including those found in Rajasthan. Krishna and Dave (1956-61) and Krishna (1975) have dealt the distribution and ecology of reptiles found in desert areas of this state. Sharma and Tyagi (1977) have also made a good account in this field.

AVES

About 300 species of birds have been recorded by various workers such as Hume (1873, 1878), Adam, (1873-1874) ; Barnes (1886, 1891) : Butler (1875-1878), Stuart Baker (1900), Whistler (1938), Salim Ali (1975) ; Roberts (1991, 1992) and Sharma and Rahmani (1998) ; Trigunayat (1999) and Vyas (1999).

MAMMALS

Pocock (1936-40) dealt with some mammals, fox, mongoose and otter from this area. Singh (1946) reported the occurrence of an albino boar from Udaipur. Krishna and Prakash studied the distribution of hedgehogs. Prakash dealt with extinct and vanishing mammals of Rajasthan and problems of their preservation. Gupta and Agarwal (1966) reported Indian hairy-footed gerbil from kolayat, Sikar and Jodhpur. Agarwal (1967) has also recorded **Rattus gleadowi** (Murray) and **Pipistrellus dormeri** from Jodhpur. Prakash and Jain (1967), Prakash et.al. (1971), Biswas and Ghosh (1968, 1976), Sinha (1975, 1976, 1981), Rana (1980), and Prakash (1975) studied the ecology and zoogeography of Rajasthan mammals. Roonwal and Mohnot (1977) studied the ecology, sociobiology and behaviour of primates in South Asia including those from Rajasthan. Sinha (1980, 1994) studied the ecology, sociobiology and behaviour of primates in South Asia including those from Rajasthan. Sinha (1980, 1994) studied the taxonomy, distribution and zoogeography of 21 species of the bats from Rajasthan.

During the survey of Rajasthan desert from 1953-1956 ; Krishna and Prakash have made ecological studies on the mammals in general and hedgehogs, gerbils and bats in particualr.

Since 1962 onwards a lot of work has been done on the biology and ecology of desert rodents by Prakash and colleagues. Reena Mathur, (1982-1993), Mohnot (1971-

77), Rajpurohit (1986-93) studied the ecology, behaviour, social organisation, infant killing, and population of the Hanuman langur around Jodhpur and Hrdy (1977) at Mt. Abu, Rajasthan, Ojha (1974-78) studied the dominance, tail carriage, and bites inflicted by rhesus macaque at Maroth Village, Rajasthan. Roonwal (1976-89) made an extensive study of the tail carriage in Hanuman Langur.

Studies have also been made on the population dynamics of Black buck, around Jodhpur (Sinha, 1986, Bohra et.al., 1992 and on Indian Gazelle (Rahmani, 1990).

It is observed that the references on various aspects of Zoology are spread over a wide variety of Journals and other publications. Some of them are not easily accessible and others are so rare and little known that their existence come to light only fitfully and by chance. Often times it becomes difficult to trace out references on a topic from different journals. It was, therefore, felt that if all the available references are consolidated in a single compendium, it will be of considerable help to all researchers.

The purpose of the present Bibliography is to provide systematic information on research work carried out on the Rajasthan fauna. An attempt has, therefore, been made to collect and collate all available references from the following sources : BNHS, Bomay; CAZRI, Jodhpur; Salim Ali Centre for Ornithology and Natural History, Coimbatore; Agriculture University, Mandore; Agricultural Research Station, Sri Ganganagar; Sukhadia University, Udaipur; Rajasthan Agriculture University, Durgapura; Rajasthan Agriculture University, Udaipur; Desert Medicine Research Centre, Jodhpur; Jai Narain Vyas University, Jodhpur; Rajasthan University, Jaipur; Wildlife Institute of India, Dehra Dun; Wildlife Laoratory Institute of Biology, Taiwan; Various Journals, Books and Monographs. The literature which was sent by scientists from India and abroad has been listed in the bibliography. The reports of Institutes and abstracts of papers published in proceedings of symposium, seminars and conferences have also been included in this bibliography.

The references are arranged alphabetically in the bibliography according to the author's name. However, the index has been compiled with reference to different major groups like Protozoa, Porifera, Coelenterata, Platyhelminthes, Nemathelminthtes, Annelida, Mollusca, Arthropoda, Coleoptera, Isoptera, Neuroptera, Insecta, Insect control, Pisces, Reptiles, Aves, Mammals, Rodent control, Taxonomy & wildlife etc. An author index has also been compiled.

The Bibliography contains 4335 references. Inspite of intensive efforts to collect and collate all the information, it is feared that some texts, published in obsolete journals, may not have figured in this compendium. However, if the number of publications is any indication, Insects (1025 references), Aves (533 references), Mammals (1195 references) are the most studied animals in Rajasthan. On the other hand the bibliography also points out that certain groups of animals have not yet received adequate attention of Zoologists and that an intensive collection and their study would provide useful

information about the faunistic wealth of Rajasthan. The Principal groups which need immediate attention are Turbellaria, Monogentic trematodes, Acanthocephala, Acarina, Myriapoda, Annelida : Oligochaeta and few groups of insects like Mallophaga and Collembola. Attention of Palaeontologists is also invited towards the study of lesser known fossil animal groups like Bryozoa, Coelenterata, Echinodermata and Pisces. The parasitic protozoa and Crustacea etc. have also been untouched and their study could also be interesting.

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