

BIBLIOGRAPHY
ON THE
STROMATOLITE
AND
MICROBIOTA RESEARCH
IN
INDIA
(1938-1988)

Compiled by V.C. TEWARI



WADIA INSTITUTE OF HIMALAYAN
GEOLOGY
33-GENERAL MAHADEO SINGH ROAD
DEHRA DUN-248 001

PREFACE

The Bibliography on the **Stromatolite and Microbiota Research in India** is the fifth one in the series of bibliographies to be published by the Wadia Institute of Himalayan Geology.

The stromatolites and microbiota are found in all the Archaean, Proterozoic and Phanerozoic sedimentary basins of India and their study is of great significance in understanding the early history of evolution of life on the Indian subcontinent.

The Wadia Institute of Himalayan Geology is also carrying out fundamental research in the field of Biosedimentology and Stromatolitolology in the Lesser Himalayan sedimentary basins which are now considered to have Riphean - Cambrian sediments. The present Bibliography also incorporates the researches done in the Peninsular sedimentary intracratonic basins which might have been the part of a bigger Indian craton including the present day Lesser Himalaya.

The bibliography has been compiled basin-wise and subjectwise by Dr. V.C. Tewari of the **Biostratigraphy and Sedimentology Group**. I hope this compilation will be very useful to those scientists who are pursuing their research on stromatolites and microbiota not only in the Himalaya and other sedimentary basins of India but also in U.S.S.R., Australia, Africa, China and other countries.

16 September, 1988

V.C. THAKUR
DIRECTOR

INTRODUCTION

The Bibliography on the **Stromatolite and Microbiota Research in India** from 1938-1988 (50 years) has been compiled on the eve of the Indo-Soviet Symposium on **Stromatolites and Stromatolitic Deposits** to be held at Wadia Institute of Himalayan Geology, Dehra Dun from September 30th to October 1st, 1988.

The present Bibliography is a first attempt on this specialised topic in India. The earlier Bibliography brought out by the Geological Survey of India was of general nature and not comprehensive in coverage. It was felt necessary by the author to compile all the available literature on Stromatolite and Microbiota occurrences in India. Further, it was decided that the information should be classified according to basin wise and subject wise to make it more useful for the **Stromatophiles**.

The National Working Group (NWG) of the International Geological Correlation Programme (IGCP-261) in India also realised that a complete Bibliography on Stromatolite Research in India should be compiled along with the list of group genera and form species recorded so far. Since, the compilation work of this Bibliography was already in an advanced stage, I was given the additional responsibility by the NWG of IGCP-261 to include the list of group genera and form species recorded so far from India. The present Bibliography incorporates the names of group genera and form species.

Arrangement:

The entries in the Bibliography are arranged alphabetically by the surname of the authors. Four subject groupings viz.:

- (1) Stromatolites/Microbiota/Biostratigraphy and Palaeontology.
- (2) Stromatolites/Microbiota and Palaeoenvironment-/Palaeobiology.

- (3) Stromatolites/Microbiota and Economic Mineral Deposits.
- (4) Stromatolites/Microbiota/Isotope/Organic geochemistry and thirteen Basin groupings have been done.

All the stromatolitic sedimentary basins of India (Fig.) have been covered and given a code number (see list of code number). Each entry in the Bibliography contains the following information in order ; basin code number, subject code number, name of author(s), name of journal volume and pagination. In the case of conference or symposia, its year and pagination is given. Name of editor, title of edited book, its publisher, place and year of publication has been given in case of books.

The list of group genera and form species of stromatolites recorded so far is given in the last. The entries are arranged in the following order : year, basin code, subject code, name(s) of the author(s), group genera/form species recorded. Two histograms have been prepared with the help of the computer to show (a) the trend of publication during 1938-1988 (Fig. 1) and (b) number of group genera and form species recorded between 1938-1988 (Fig. 2).

I sincerely hope that the Bibliography will be a useful tool to the scientists working on stromatolites and microbiota in India and abroad.

In spite of my best efforts, I realise that some references may not have been indexed and apologize for the slip. The suggestions regarding the improvement of this Bibliography may kindly be sent to the compiler, which I hope will bridge the gap left in the present work.

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The author is grateful to Prof. K.S. Valdiya, Kumaun University, Nainital for his constant encouragement during the course of preparation of the manuscript. Thanks are also due to Shri V.P. Singh and Mrs. Abha Kumar of the Publication Section for going through the manuscript and processing it for printing. He is also thankful to Miss Prabha Paruthi for ably typing the camera ready manuscript and to Mrs. Anita Saini for typing the draft of the bibliography.

16 September, 1988

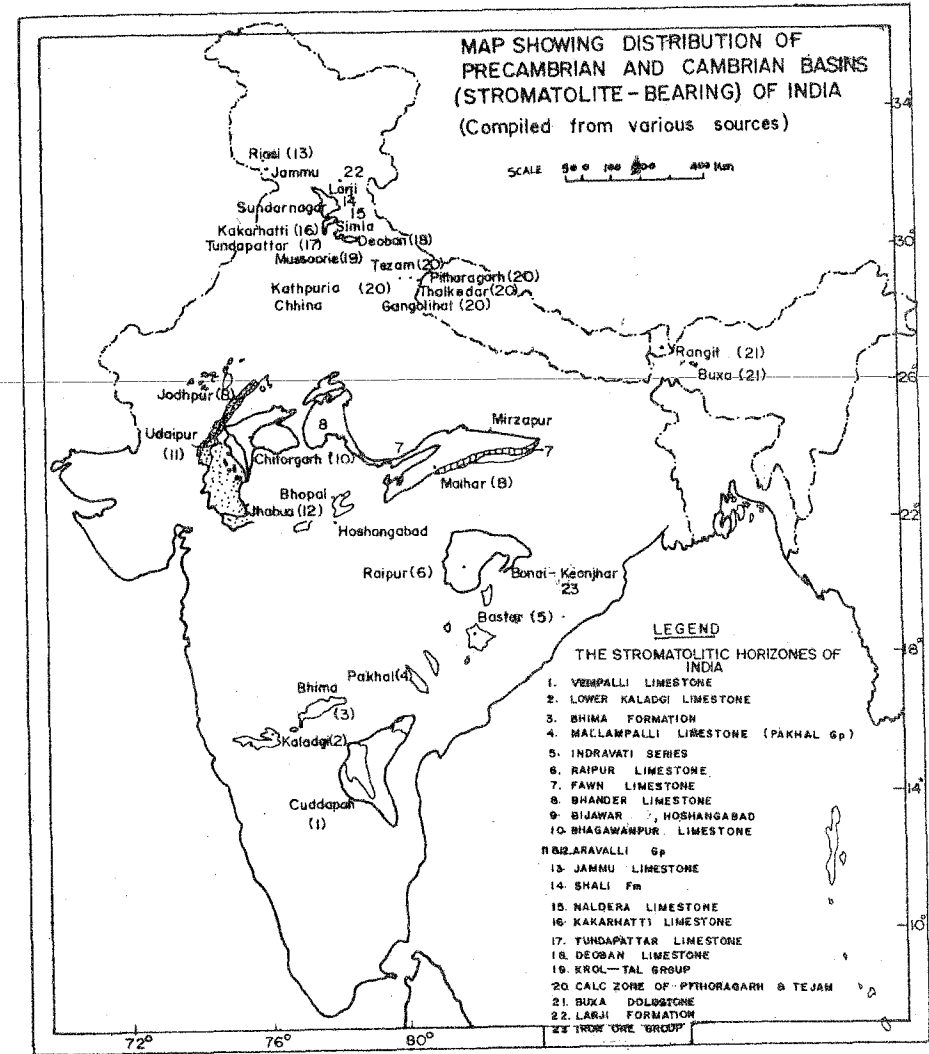
V.C. TEWARI

BASIN CODE

SG	Stromatolite and Microbiota : General
AS	Archaean Basin
D	Delhi Basin/Supergroup
K	Kaladgi Basin
A	Aravalli Basin
V	Vindhyan Basin
C	Cuddapah Basin
P	Pakhal Basin
IOF	Iron Ore Formation
B	Bijawars
PG	Pranhita-Godavari Basin
G	Gondwana Basin
LH	Lesser Himalayan Basins
LHD	Deoban Basin (Jammu-Shali Deoban-Gangolihat-Tejam)
LHK	Krol Basin (Blaini-Krol-Tal)

SUBJECT CODE

1. Stromatolites/Microbiota and Biostratigraphy
Palaeontology
2. Stromatolites/Microbiota and Palaeoenviron-
men/Palaeobiology
3. Stromatolites/Microbiota and Economic Mineral
Deposits
4. Stromatolites/Microbiota and Isotope/Organic
Geochemistry



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1976- Microfossils from the Badami group,
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lites of Lokapur region, Karnataka, *Geol.
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1984- Microfossils from the Salagundi
Conglomerate of Bagalkot Formation,
Kaladgi Group, South India, In: *Proc.
10th Colloq. on Micropalaeontol. and
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tra Assoc. for Cultivation of Sci., Pune,
51-60.
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and oolites from the Vindhyan Basal
Conglomerate of the Son Valley, district
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Congr.* 3(5), 322-323. (Abstr.)

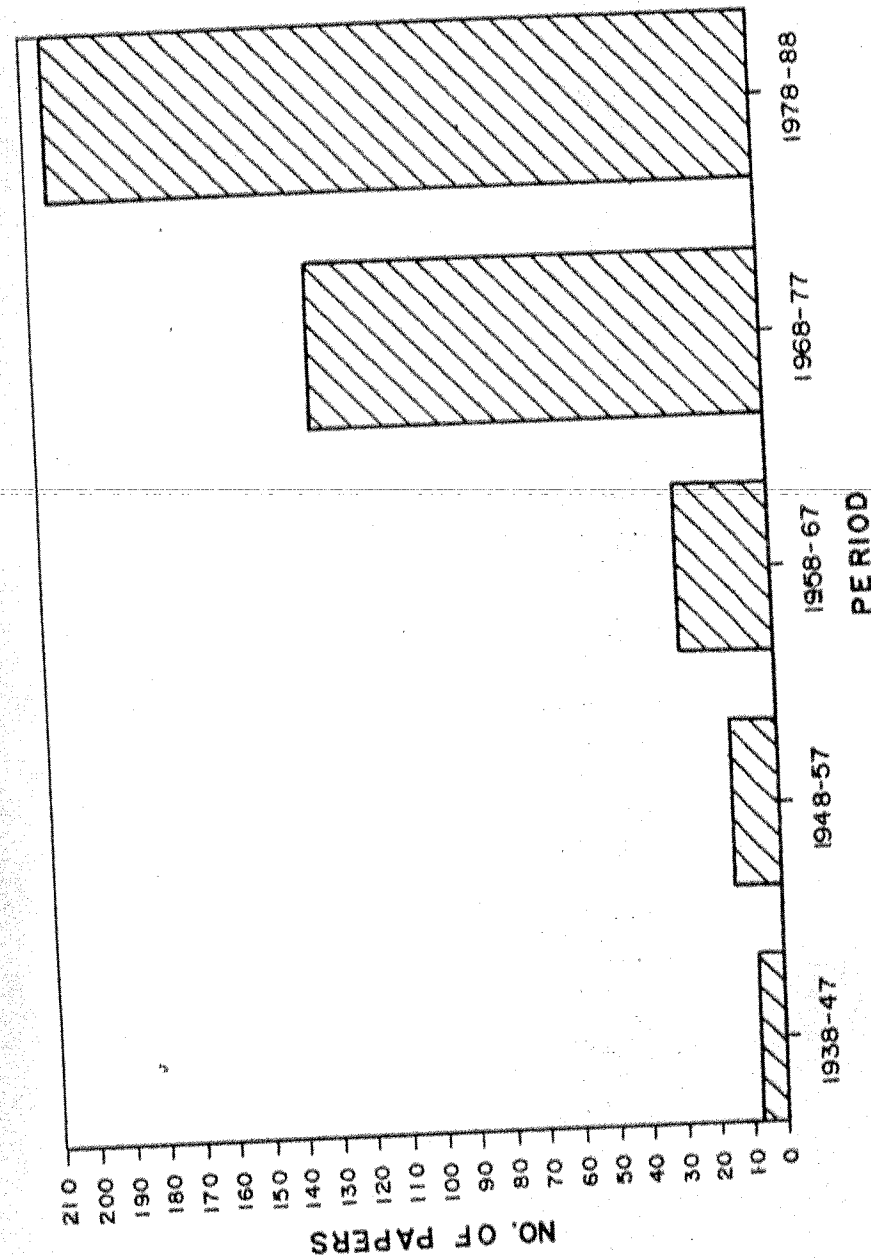


Fig. 1 Showing Publications During 1938 - 1988.

Year	Code	Author(s)	Name of group and form	genera and species
1958	V/1	Mathur, S.M.	Indophyton	f. nov.
1961	LHD/1	Misra, R.C. & Valdiya, K.S.	Collenia	Walcott, 1914 species A, B, C
1962	LHD/1	Valdiya, K.S.	Collenia cf. septentrionalis	Fenton & Fenton 1939
1966	LHD/1	Dixit, P.C.	Cryptozoon Collenia Collenia undosa	columnaris flabelliformis tenuilamellata
1966	LHD/1	Nalvikin, V.D.	Osagia	tenuilamellata
1968	LHD/1	Misra, R.C. & Kumar, S.	Collenia Collenia	columnaris nailensis f.nov.
1969	SG/1	Valdiya, K.S.	Collenia	columnaris Fenton & Fenton, C. baicalica Maslov, C. buriatica Maslov, C. symmetrica Fenton & Fenton, Jurusania? Krylov, Conophyton cylindricus Maslov 1937, Collenia kussien- sis Maslov, Baicalia

			msp., <i>C. parva</i> , <i>Colone- lla (Masloviella) colum- naris</i> , <i>Minjaria</i>			phyton <i>cylindricus</i> , <i>C. garganicus</i> <i>Kussiella</i> <i>Kussiensis</i>	
1970	LHD/1	Banerjee, D.M.	<i>Collenia columnaris</i> , <i>Collenia baicalica</i> , <i>Collenia frequense</i> , <i>Collenia frequense</i> var. <i>dafautensis</i> , <i>Colle- nia frequense</i> var. <i>dwarfous</i> , <i>Collenia</i> <i>frequense</i> var. <i>kandaen- sis</i> , <i>Collenia pseudocol- umnaris</i> , <i>Collenia</i> <i>septentrionalis</i> , <i>Collenia</i> <i>miniature</i>	1974	LHD/1	Acharyya, S.K.	<i>Kussiellida</i>
				1974	V/1	Sarkar B.	<i>Baicalia baicalica</i> <i>Maslov Colonella</i> <i>Komar Collenia undosa</i> <i>Walcott Cryptozoon</i> <i>Koroljuk Colonella</i> <i>Komar Weedia Walcott</i>
				1975	LHD/1	Kumar, G. & Agarwal, N.C.	<i>Collenia</i> sp.
				1976	V/1	Kumar, S.	<i>Conophyton garganicus</i>
1970	LHD/1	Pande, I.C.	<i>Conophyton cylindricus</i> , <i>Masloviella columnaris</i> , <i>Baicalia baicalica</i> , <i>Collenia symmetrica</i>	1976	V/1	Kumar, S.	<i>Colonnella kajrahatensis</i> f. nov. <i>Collenia symm- etrica</i> , <i>Conophyton</i> <i>vindhyaensis</i> , <i>Kussiella</i> <i>Kussiensis</i> , <i>Kussiella</i> <i>dalensis</i> f. nov., <i>Colonn- ella symmetrica</i> , <i>Colonnella lodhwarensis</i> , <i>Colonnella (Collenia)</i> <i>clappii</i> f. nov.
1970	LHK/1	Rao Gundu, C.	<i>Volvatella vadosa</i> Z. Zh. <i>Ambigolamella- tus horridos</i> Z. Zhsur., <i>Vesicularites bothydio- formis</i> krasnop, <i>Vermicularites irregu- laris</i> Reitt. <i>Volvatella</i> <i>zonales</i> Nar.	1976	LHK/1	Singh, I.B. & Tangri, A.K.	<i>Collenia</i> sp. <i>Conophyton Maslov</i>
1971	LHD/1	Saklani, P.S.	<i>Baicalia</i> sp, <i>Masloviella</i> sp, <i>Jurusania</i> sp	1977	LHK/1	Singh, I.B. & Rai, V.	<i>Conophyton garganicus</i> <i>Koroljuk Baicalia</i> <i>baicalica Colonnella</i> sp.
1973	A/1	Chauhan, D.S.	<i>Collenia columnaris</i> Fenton & Fenton, <i>Collenia kussiensis</i> Maslov <i>Collenia baicali- ca</i> Maslov	1977	LHD/1	Sinha, A.K.	<i>Conophyton ex. gr.</i> <i>cylindricus</i> <i>Jurusania</i>
1973	LHD/1	Raha, P.K. & Sastry, M.V.A.	<i>Colonnella</i> sp., <i>Cono-</i>				

Krylov 1963, *Tungussia*
 sp. Semikhatov 1962
Cryptozoon occidentales
 Dawson

1980 V/I Kumar, S. *Tangussia* msp. and
Baicalia msp.

1980 V/I Prasad, B. *Cryptozoon occidentalis*
 (*Kussiella*), *Weedia*
 Walcott *Collenia col-*
umnaris (*Colonnella*)
Collenia baicalica
 (*Baicalia*), *Collenia*
ramsayi (*Inzeria*) *Cono-*
phyton cylindricus
Tungussia sp. *Linella*
 sp.

1980 V/I Prasad
 B. &
 Ramasamy,
 S.M. *Collenia baicalica*,
Collenia columnaris

1980 V/I Singh, Maharaja
 & Banerjee,
 A.K. *Collenia kussiensis*
 Maslov *Collenia baicali-*
 CA Maslov

1980 V/I Srivastava,
 R.A.K. &
 Mehrotra,
 M.N. *Collenia frequens*
 Walcott, *Collenia*
cylindrica Maslov,
Collenia columnaris,
Collenia kussiensis

1980 C/I Rao, B.B. &
 Gururaja, M.N. *Conophyton cylindricus*
 Maslov, 1937

1980 A/I Raaben, M.E. *Minicolumella* g. nov.
 Raaben, 1980 *Minicolu-*
mella barmenea sp.
 nov. *Minicolumella*
chauhanae sp. nov.

1980 LHD/I Raha, P.K. *Colonnella* cf. *discreta*

C. katraensis
 cf. nov. *C. cf. laminata*
 Komar 1966, *C. riasi-*
ensis f. nov, *Omachata-*
nia granensis f. nov,
Kussiella kussiensis
 Krylov 1963, *Kussiella*
 cf. indet., *Platella*
talwarensis f. nov.,
Conophyton cylindricus
 Maslov, 1937, *Baicalia*
 (Maslov) Krylov,
 1963 B. cf. *prima*
 Semikhatov 1962,
Anabaria cf. *radialis*
 Komar 1966, *Maslovie-*
lla columnaris koroljuk
 1960, *Nucleella* fm.
 Komar 1966, *Irregularia*
 fm. Koroljuk 1960

1980 D/I Verma, K.K.
 Barman, G. *Baicalia baicalica*
 (Maslov) Krylov, 1960
Collenia columnaris
 Fenton and Fenton
 1937, *Jacutophyton*
 Shapova Iova, 1968

1981 A/I Raaben, M.E. *Kanpuria* Raaben
 g. nov, 1981 *Kanpuria*
Kanpura f. nov. Raaben
 1981 *Conophyton*
minusculum Semikhatov
 1981 *Kussiella kussiensis*,
Kussiella vittata,
Colonnella columnaris,
Conophyton Maslov,
Conophyton cylindricus
Nucleella, Gaya, *Cono-*

			fm. indet. <i>Jurusania</i> <i>himalayaika</i> f. nov. <i>Irregularia</i> , <i>Newlandia</i> ? <i>Tungussia</i>
1977	LHD/1	Kumar S. and Tewari, V.C.	<i>Conophyton</i> <i>misrai</i> f. nov.
1977	LHK/1	Raha, P.K.	<i>Malacostroma</i> <i>concerti-</i> <i>cum</i>
1977	V/1	Rao, K.S., Lal, C. and Ghosh, D.B.	<i>Boxonia</i> msp.
1978	V/1	Kumar, S.	<i>Collenia clappii</i> , <i>Baicalia</i> <i>baicalica</i> , <i>Baicalia</i> <i>sarnaensis</i> f. nov., <i>Maiharia maiharensis</i> g. nov.
1978	LHD/1	Kumar S. & Tewari, V.C.	<i>Conophyton</i> <i>garganicus</i> Koroljuk, 1963
1979	LHD/1	Tewari, V.C.	<i>Stratifera</i> <i>undata</i> , Komar <i>Gongylina</i> <i>differentiata</i> Komar
1979	LHD/1	Kumar, S. & Singh, S.N.	<i>Jacutophyton</i> msp.
1979	LHD/1	Sinha, A.K. & Raaben, M.E.	<i>Illicita</i> <i>deobanica</i> f. nov. <i>Parmites</i> Raaben
1980	IOF/1	Awasthi, R.K.	<i>Collenia</i> sp.
1980		Banerjee, D.M. & Rawat, R.S.	<i>Kussiella</i> Krylov, 1963
1980	A/1	Banerjee, D.M.	<i>Kussiella</i> sp.

		& Basu, P.C.	<i>Baicalia</i> sp., <i>butin</i> sp.	<i>Sundia</i>
1980	V/1	Barman, G.	<i>Stratifera</i> <i>Cryptozoon</i>	<i>Koroljuk</i> <i>occidentale</i>
1980	K/1	Godwa, M.J.C. & Rajulu, B.V.G.	<i>Collenia</i> <i>Collenia</i> <i>Collenia</i> Walcott, <i>frequens</i> Fenton, <i>sym-</i> <i>metrica</i> Fenton	<i>albertensis</i> Fenton and Fenton, <i>columnaris</i> Fenton and Fenton <i>compacta</i> <i>Collenia</i> Fenton & <i>sym-</i> <i>metrica</i> Fenton &
			<i>Colonnella</i> Fm A, <i>Colonnella</i> Fm B <i>Colonnella</i> Fm C	
			<i>Collumnacollenia</i> Korol- juk <i>Cryptozoon</i> Hall <i>Cryptozoon</i> cf. <i>occi-</i> <i>dentale</i> Rezak, 1957 <i>Conophyton</i> Maslov <i>Jacutophyton</i> Shapoval- ova, 1968, <i>Omachtentia</i> Nuznov, 1967, <i>Kussiella</i> Krylov, 1962, <i>Jurusania</i> Krylov, 1963, <i>Anabaria</i> Komar, 1966, <i>Gymnoso-</i> <i>len steinamann</i> 1911, <i>Inzeria</i> Krylov, 1963	
1980	V/1	Jairaman, R. & Banerjee, D.M.	<i>Gymnosolen</i> sp. Cloud and Semikhatov, 1969, <i>Inzeria</i> sp., Krylov, 1963 <i>Baicalia</i> sp.,	

			phyton garganicus, Crytophyton, Parmites Raaben, Omachtenia, Colonnella Komar, Conophyton misrai, Stratifera undata, Gongylina differentiata, Gongylina mixata,				
1983	LHK/I	Singh, I.B. & Rai, V.	Stratifera, Paniscollenia Irregularia, Conophyton Maslov, Patomia, Aldania				
1983	LHD/I	Tewari, V.C.	Plicatina antiqua Raaben 1980, Kussiella Kussiensis, Parallelo- phyton, Thyssagetacea Vlasov, Tungussia msp, Collumnaefacta msp				
1983	LHK/I	Tewari, V.C.	Collumnaefacta vulgaris Sidorov, Aldania muss- oorica f.nov., Tewari				
1984	LHK/I	Tewari, V.C.	Conophyton Maslov, Stratifera irregularis				
1984	LHD/I	Tewari, V.C.	Osagia monolamellosa, Radiosus radialis f. nov., Asterospheroides				
1985	LHD/I	Tewari, V.C.	Conophyton cylindricus Grabau, Kussiella Krylov, Colonnella Columaris				
1987	C/I	Gururaja, M.N. & Chandra, A.				Collenia spissa Fenton. & Fenton, Collenia undosa Walcott, cono- phyton cylindricus Maslov, Cryptozoon Hall, Cryptozoon proliferum Hall, Hydro- phycus immanis Fenton & Fenton	
1987	LHK/I	Tewari, V.C.				Stratifera Koroljuk, 1960 Minicolumalla Raaben, 1980 Compact- ocollenia Koroljuk, 1960	
1988	LHK/I	Pant, C.C. & Sharma, A.K.				Baicalia baicalica Krylov, 1963	
1988	SG/I	Tewari, V.C. & Raaben, M.E.				Rahaella g. nov., Rahaella elongata f. nov., R. katraensis f.nov.	
1988	LHD/I	Tewari, V.C.				Rahaella Tewari and Raaben 1988	
1988	(Indo- Soviet abstract Volume (Phulchatti Quartzite Member, Tal Formation))	Tewari, V.C. Mathur, V.K. & Joshi,				Ilicta talica f. nov., Tewari et. al., Collum- naefata korgalensis f. nov., Tewari, et. al., Aldania birpica f. nov, Tewari et al.	

- 1988 Indo-Soviet abstract
Tewari, V.C. *Boxonia gracilis* Koroljuk 1960, *Colleniella* Koroljuk 1960, *Conophyton* Maslov 1937, *Conophyton durmalacus* f. nov. Tewari 1988, *Acaciella* msp.
volume (Chert-Phosphorite Member, Lower Tal Formation India)
- 1988 Indo-Soviet abstract volume (Deoban Formation)
Tewari, V.C. & Shukla, M. *Baicalia chandakia* f. nov. Tewari and Shukla
Stratifera hearnica, *Minjaria uralica*,

RECENT IMPORTANT DISCOVERIES OF VENDIA MEGA ALGAE (VENDOTAENIDES), ACRITARCHS AND MICROBIOTA FROM LESSER HIMALAYA

Year	Code No.	Author(s)	Name of Genera and Species
1986	LHD/1	Shukla, M. (Deoban Formation & Yadav, V.	<i>Eomycetopsis robusta</i> Schopf 1968, <i>Siphonophycus kestron</i> Schopf 1968, <i>Oscillatoripsis media</i> Mendelson & Schopf, 1982, <i>Cyanonema</i> sp. <i>Gunflintia minuta</i> Barghoorn 1965, <i>Animikiea septata</i> Barghoorn 1965, <i>Myxococcoides minor</i> Schopf 1968, <i>Sphaerophycus parvum</i> Schopf 1968, <i>Melasmatosphaera media</i> Hofmann 1976, <i>Glenobotrydion aenigmatis</i> Schopf, 1968, <i>Glenobotrydion majorum</i> Schopf, 1971, <i>Globophycus</i> Schopf, 1968, <i>Archaeotrichion</i> Schopf 1968, <i>Biocatenoides</i> Schopf 1968, <i>Kildinosphaera</i> Shepeleva & Timofeev 1963 emend. Vidal 1963.
1988	LHK/1	Tewari, V.C. (Blaini Formation)	<i>Symplassospheridium</i> Timofeev <i>Protospheridium</i> Timofeev
1988	Indo-Soviet abstract volume (Lower Krol Formation)	Tewari, V.C.	<i>Vendotaenides</i> Gniltovskaya 1971

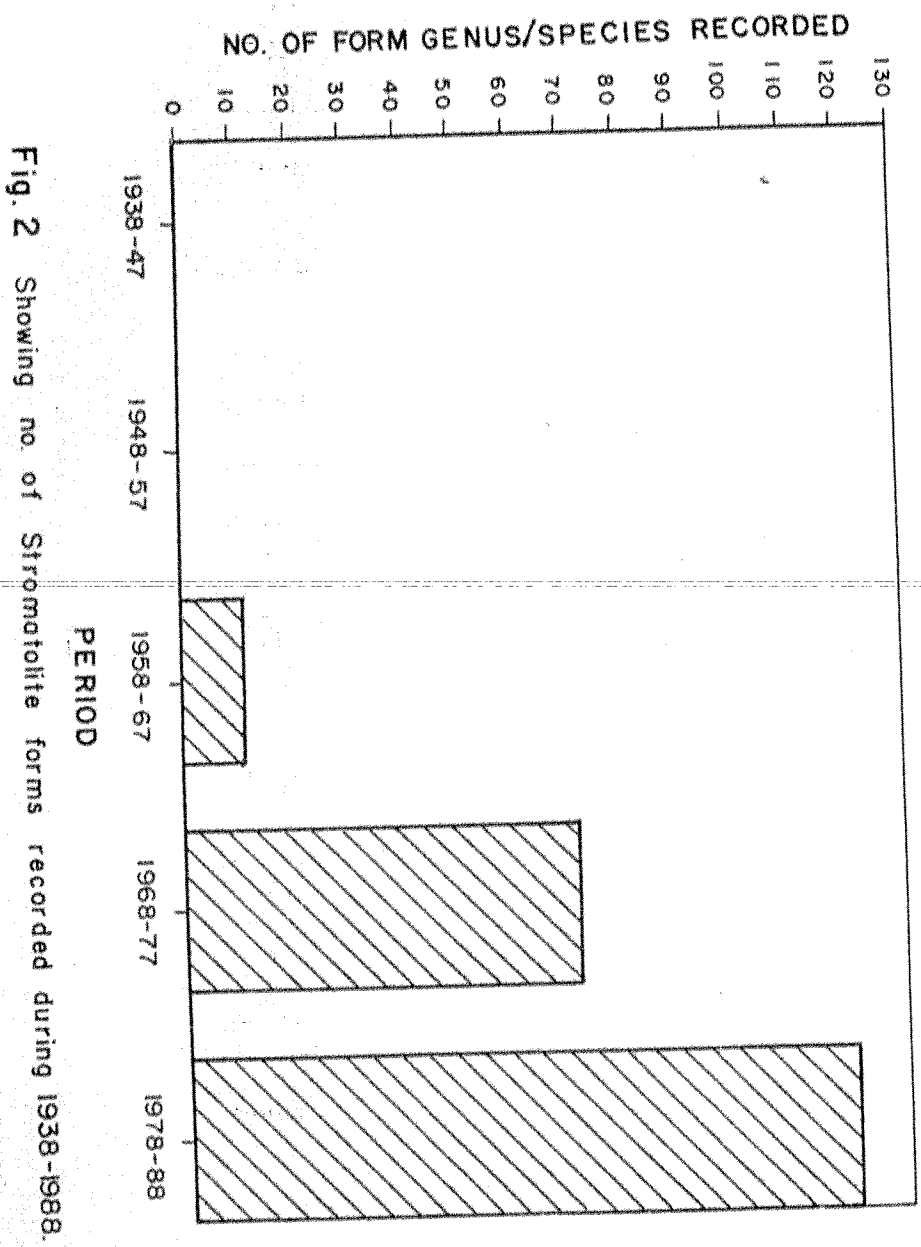


Fig. 2 Showing no. of Stromatolite forms recorded during 1938-1988.