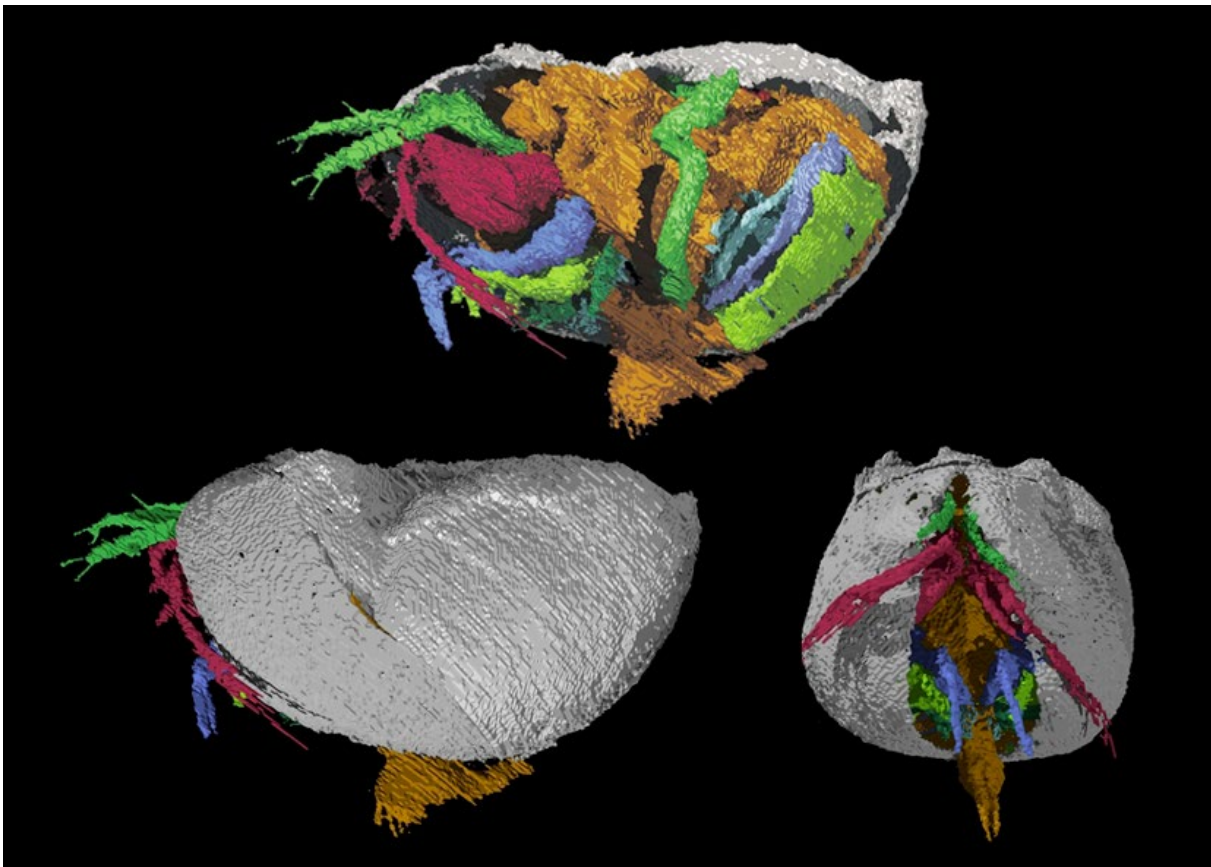


THE OSTRACODOLOGIST

1968
Number 13



The Silurian ostracod *Colymbosathon eclecticicos* Siveter *et al.*, 2003 with preserved soft-parts

Siveter, David J., Sutton, M., Briggs, D.E.G. & Siveter, Derek J. 2003. An ostracode crustacean with soft parts from the Lower Silurian. *Science* **302**:1749-1751.

THE OSTRACODOLOGIST
Newsletter for Ostracode Workers

No. 13

Tel-Aviv, November, 1968

Several important events took place in the recent months that are of interest to ostracode workers. At the 23rd International Geological Congress held at Prague late in August colleagues from all over the world gathered for a very promising session on ostracoda. For reasons which no preparatory committee could foresee, only four of the many lectures were held and then with a deep sense of appreciation to our Czech colleagues, we said goodbye to each other. In this issue, the programme of the session, as well as the abstract of one of the lectures will be given and I hope that either through this newsletter or through personal communications, something will develop so that all the work should not have been in vain.

At Hamburg, the Committee on Recent Ostracoda met - results are in this issue. At Kishinev, the Second All Union Colloquium on Ostracoda was held earlier this summer, we hope a resume of that meeting will be ready for no. 14.

Two lists of paleontologists, that of the International Paleontological Union and a separate one (in Russian) for the U.S.S.R. were issued. Dr. I.G. Sohn sent a list of Russian ostracode specialists and it will be published in the next issue.

As The Ostracodologist is sent by surface mail,

SEASON'S GREETINGS AND A HAPPY NEW YEAR TO ALL READERS

Ephraim Gerry

HAMBURG MEETING, COMMITTEE ON RECENT OSTRACODAAugust 30th, 1968

The meeting was called to order by Dr. Puri at 0900 in the Museum and Institute of Zoology at the University of Hamburg.

The following Committee members and guest specialists were present: Bassiouni, Dickau, Gramann, Grote, Hartman, Hiller, Kemper, McKenzie, Moos, Paulo, Petkovski, Puri, Vesper. Kornicker, Rome, Rudjakov and Swain had written to say they were unable to attend; Danielopol, Gerry, Harding, Hulings, Neale, Pokorny and Sylvester-Bradley had communicated orally that they could not be present. Unfortunately, our colleagues from the D.D.R. were not represented at the meeting and the recent developments in Czechoslovakia led to alterations in the travel arrangements of other ostracodologists who had intended to come. Nevertheless, it was good to see the Hannover and Hamburg workers so well represented and to meet Dottssa. Paulo, our first contact from Portugal.

Puri proposed that McKenzie take notes at the meeting and draw up a report for "The Ostracodologist". McKenzie proposed that as a matter of policy, such reports should be circulated via "The Ostracodologist" following each meeting of the Committee. Both proposals were approved by the meeting.

Pau Symposium - 1970

It was proposed to hold a meeting of the Committee during the Pau Symposium and to support this Symposium which is being organised by Oertli.

Puri agreed to write to Oertli and request that consideration be given to the arrangements of field trips to collect nearby Atlantic marine and brackish-water environments during the Symposium.

1971 Symposium - Washington?

Benson had suggested at Hull that the Committee's next full meeting should be at Washington with field trips arranged for Florida. Puri reported that Benson had experienced some difficulty in obtaining support for this projected Symposium. Should Benson be unable to get financial support, Puri considered that it might be possible to stage the entire 1971 meeting in Florida. Puri read an offer from Swain that Minneapolis be considered as a meeting site either in 1971 or later. In this case marine field trips could be arranged on the Pacific seaboard of America.

Hartmann reported that Prof. Kinne has offered the facilities of his Institute at Helgoland for meetings of the Committee.

Work Accomplished by Committee Members

The contributions of several members (Hart, McKenzie, Petkovski, Rome, Swain) in respect of their assignments, will appear in the Hull Symposium Proceedings, which should be published early next year.

In addition, Kornicker and Rudjakov reported on their studies of Myodocopida; Pokorny is working actively on Hemicytheridae; Hazel has published on trachyleberidids (1967); Hulings has published in Crustaceana; Sylvester-Bradley exhibited results of the University of Leicester's electron-scan microscopy unit at the Prague Congress; Hanai has almost completed a study of Schizocytheridae; Sandberg has published on Cytherideidae. Hartmann has been totally occupied with the Bronn Volume. Two parts are published, a third is at the proof stage and others should follow within the next two years.

Hartmann's assignments for the Committee were reassigned to Petkovski, who, apart from his contribution on Candona to the Hull Symposium, has almost completed a study on Notodromas.

Withdrawal from the Committee:

Van den Bold, Harding and Shaver have withdrawn from their assignments (and Tressler has retired). Harding is prepared to contribute the techniques he has developed for electron scan microscopy of soft parts.

Tentative Reassignments

Bairdiidae	- Maddocks
Macrocyprididae	- McKenzie (much of this has already been accomplished by Triebel 1960, K.G.M.)
Candonidae	- Petkovski
Ilyocyprididae	- Petkovski
Notodromadidae	- Petkovski
Paracyprididae	- McKenzie (I hope Maddocks will participate K.G.M.)
Darwinulidae	- Sohn and Pinto
Cytheruridae	- Hanai or Sandberg
Hemicytheridae	- Pokorny and Bassiouni
Leptocytheridae	- Grote
Pectocytheridae	- Hanai
Psammocytheridae	- Grote

.../Cont'd

Family Uncertain (Cytheracea)	-	Sohn
Halocyprididae	-	Rudjakov and Angel
Polycopidae	-	Bonaduce
Electron Scan Microscopy (Carapace)	-	Sylvester-Bradley
Electron Scan Microscopy (soft parts)	-	Harding
Soft parts Mesozoic Ostracoda (Particularly <u>Bairdia</u> , <u>Paracypris</u>)	-	Gramann

Puri has written to Angel, Bonaduce, Hanai, Harding, Maddocks, Pinto and Sandberg asking them to take up these tentative assignments and reassignments.

General Discussion :

A general discussion followed.

There was agreement on the following points of taxonomic procedure.

1. When the generic status is not completely certain, forms should be recorded as ? Genus, 'Genus' or Genus s.l. Improper assignments of genera impair the original generic concept.
2. Rather than eroding or incorrectly expanding the concept of a described species a new species should be described.
(Both 1. and 2. recognise that when the original concepts of a genus and species are at fault then correction is necessary).
3. Comparisons need to be included in every diagnosis.

Further discussion took place on the difficulty in assigning some borderline groups to Hemicytheridae or Trachyleberididae. Hartmann noted that it was because of this difficulty that he had made the observations he did in his systematic paper (see Naples Symposium Volume p. 577).

McKenzie drew attention to the need to obtain soft part data for such phylogenetically important families as Punciidae. In this connection, Hartmann noted that Martinsson (pers. comm) was of the opinion that Punciidae were definitely not Palaeocopida.

The meeting closed formally about noon with a resolution of thanks to Mrs. Dose and Messrs. Grote, Hiller, Peterson and Vesper, all of the State Zoological Institute and Zoological Museum, Hamburg, for their efforts with regard to arrangements for the meeting.

After a good lunch, the participants worked with the Museum collections and Hartmann's card index. Apart from the collections built up by Hartmann over the past decade, the Hamburg University Zoological Museum also houses the important Klie Collection.

Those present were very grateful for the opportunity to consult this material.

K.G. MCKENZIE

Addresses of Participants

- BASSIOUNI, M. el Amin Ahmed Geology Dept., Faculty of Science, Ain Shams University, Cairo, Egypt.
- DICKAU, Bruce Department of Biology, Florida State University, Tallahassee, Florida 32302, U.S.A.
- MOOS, Beata and
GRAMANN, Franz Nieders Landesamt f. Bodenforschung, Hannover, Germany.
- KEMPER, Edwin Bundesanstalt f. Bodenforschung, Hannover, Germany.
- HARTMANN, Gerd; GROTE, Claus; HILLIER, Dieter; VESPER, Bernd.
Zoologisches Staatsinstitut und Zoologisches Museum, V. Melle Park 10, 2000 Hamburg-13, Germany.
- PETKOVSKI, Trajan Zoological Museum, Skopje, Yugoslavia.
- PAULO, Leopoldina Instituto Zoologia, Fac. Sci., Porto, Portugal.
- PURI, Harbans Florida Board of Conservation, Division of Geology, P.O. Box 631, Tallahassee, Florida 32302, U.S.A.
- MCKENZIE, Kenneth G. British Museum (Natural History), London, S.W.7, England.

PROGRAMME OF THE OSTRACODE SESSION, INTERNATIONAL PALEONTOLOGICAL
UNION, PRAGUE, AUGUST 1968

K.G. McKenzie

Contribution to the Ontogeny and Phylogeny of Ostracoda

E.N. Polenova

Early Devonian Ostracodes of the U.S.S.R. Their Correlative
Significance and Biogeographical Relations

L. Sarv

Development of Ordovician Ostracodes of the East Baltic

I.G. Sohn

Classification and Dimorphism of the Paleozoic Ostracode Paraparchites
and Related Genera

J. Gröndel

Zur Infra- und Transspezifischen Variation der Schliessmuskelnarben
bei Ostracoden.

M. Martinsson

Sexual Dimorphism in Palaeocene Ostracodes

Vl. Pokorný

Speciation of Hemicytherineae (Ostracoda) in the Galapagos Islands

M.N. Gramm

Marine Triassic Ostracodes from South Primorie on the Evolution of
the Adductors of Cavellinids

A. Sayab

Upper Cretaceous Ostracoda from Rumaila Oil Field, South Iraq

K.N. Negadaev-Niconov

Ecology, Phylogeny and Taxonomy of Limmocythere

D.L. Danielopol

On the Probable Assignment of some Fossil Candona to the Group Mixta,
Klie 1938 (Ostracoda, Podocopa)

G.F. Schneider

Stages of the Development of Ostracodes in Neogene Epoch
of Ponto-Caspian Basin

A. Sokac

Pontian Fauna of Ostracodes in Croatia (Yugoslavia) with Special
Reference to the Subfamily Candoninae.

J. Becker, K.A. Dickinson, F.M. Swain

Cenozoic Freshwater Ostracoda Assemblages of the Western United
States

G. Lüttig

The Boundary Tertiary Quaternary Represented with the help of
Freshwater Ostracods.

Discussion: Organization of international collaboration in
Ostracodology.

(Only the lectures by McKenzie, Polenova, Gramm, Pokorny were given)

Contribution to the Ontogeny and Phylogeny of Ostracoda

by

K. G. McKenzie

British Museum (Natural History)

ABSTRACT

After outlining briefly the known ontogenies, morphological comparisons of carapace and other anatomical characters, combined with reference to environmental associations and to the fossil record, are used to examine phylogenetic relationships between the extant families of Ostracoda.

Significant trends appear from consideration of the development of: muscle scar patterns; hinge types; radial and normal pore canals; inner lamellae; segmentation; limb structure with respect to habits of life¹; the furca.

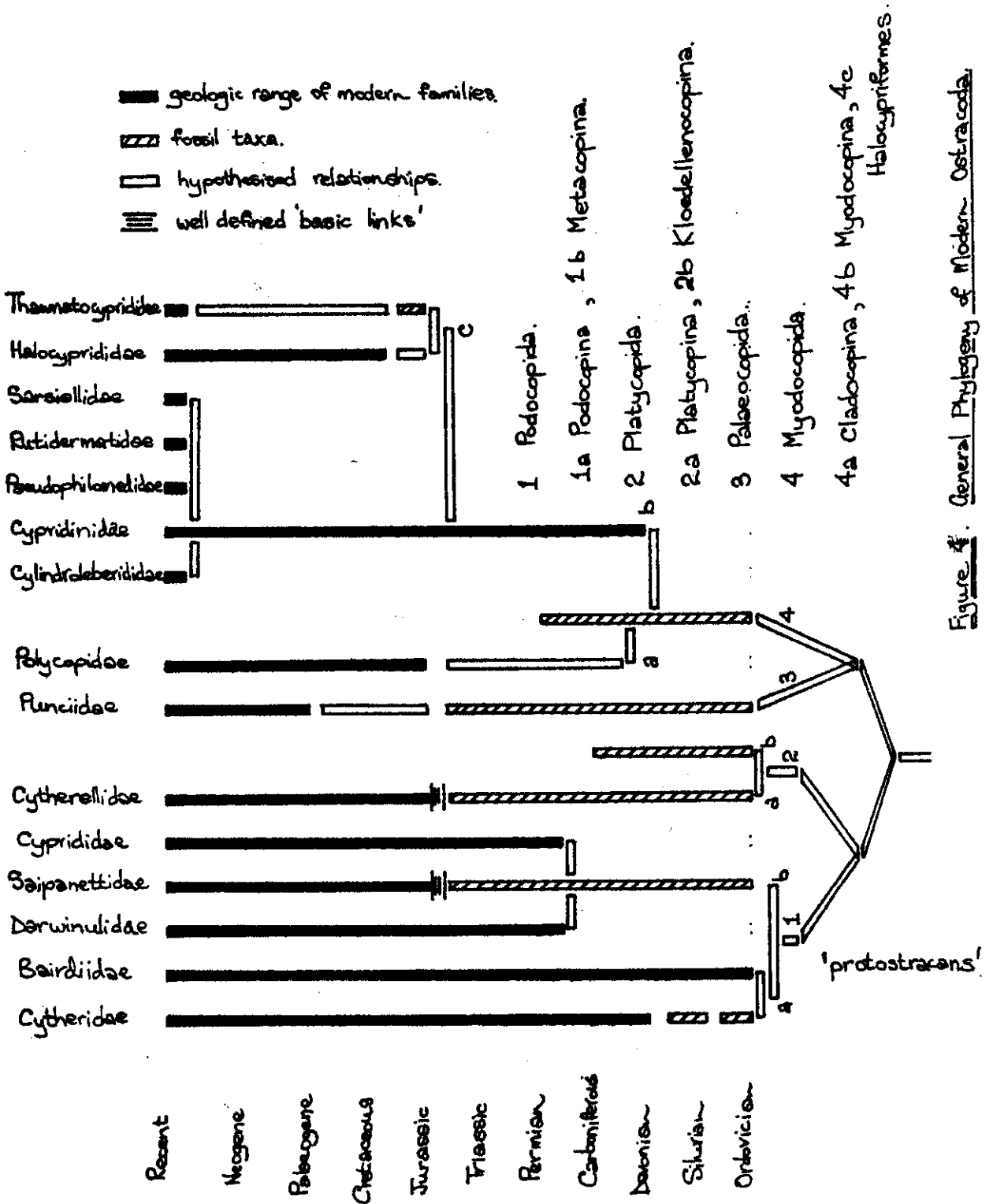


Figure 4. General Phylogeny of Modern Ostracoda.

Comparisons with other Crustacea are made with respect to: segmentation; the carapace; general appendage organisation; ontogeny; skeletal musculature; the eye. These underline the distinctiveness of Ostracoda but also establish some notable correspondences with other Crustacea.

The four surviving orders are then considered phylogenetically and the available data extrapolated into an interpretation of the possible 'protostracan' ancestor.

This 'protostracan', which is thought to have had more podocopid than myodocopid affinities, was rather small, had a weakly calcified or chitinised shell and lived benthically or epibenthically in warm water shallow marine environments where it was an active scavenger and algal browser.

It may have resembled closely the primitive crustacean.

(Dr. McKenzie writes: "Further there is enclosed a copy of Fig.4 from my paper which presents a phylogeny of the modern orders of Ostracoda. Since time was so short in Prague, I would gladly discuss the implications of the fig. with those interested either through the Ostracodologist or in private correspondence.")

ADDITIONAL INFORMATION, ADDRESS CHANGES, REQUESTS

BELGIUM

WOUTERS, K.
Geol.Inst., Leuven University
6 St. Michiel St., Leuven

Mioc.-Pleist., ostracoda of Belgium

CANADA

SIDDIQUI, Q.A.
Dept. of Geology, St. Mary's University
Halifax, Nova Scotia

Mesozoic & Cenozoic

ENGLAND

(change)
LORD, A.
School of Environmental Sciences
University of East Anglia
Wilberforce Rd., NORWICH, NOR 88c

Plio-Pleistocene, Low Jurassic

FRANCE

(change)
DAMOTTE, R.
Laboratoire de Micropaleontologie
Faculte des Sciences
Tour 15-25-E 4
9 Quai Saint Bernard, Paris 5

GERMANY (DDR)

KOZUR, H.
Paleontology Department
Bergakademie Freiberg
POB 47, 92 Freiberg (Sachs.)

Revision of triassic Cytheracea

GERMANY (FDR)

BOLZ, H.
Geol. Paleont. Inst.
Technische Universitat
Hardenberg str. 34, 1 Berlin 12

Upper Triassic/Lower Liassic
marine ostracoda of the alpine
region

GROOS, H.
Geol. Paleont. Inst.
28 Berliner str., 34 Göttingen

Middle Devonian

KEMPER, E.
Bundesanstalt für Bodenforschung
Alfred Bentz Haus, POB 54
3 Hannover Buchholz

German Cretaceous

INDIA

VICTOR, G.
Annamalai University
Annamalainagar P.O.
Madras State

Cretaceous-Tertiary

ITALY

MORONI, A.
Ist. di Zoologia
Universita di Parma
43100 Parma

ostracoda of ricefields would
like to communicate with
specialists from Japan, Indonesia,
Burundi (or vicinity)

UNITED STATES
(change)

CRANE, M.
Humble Oil & Refining Co.
P.O.B. 2180, Houston, Tex. 77001.

DICKSON, B.E.
The Florida State University
Tallahassee, Fla. 32306

Living ostracoda.

LIST OF PUBLICATIONS ON OSTRACODA FOR 1967

PART III

ASCOLI, P., Ostracodi olocenici continentali e salmastri di un pozzo perforato nella laguna di Venezia
Memorie di Biogeografia Adriatica, vol.VII, pp.53-149, 4 pls., 4 tpls.
33 samples of a 27 mtr continuous core were studied, 38 spp. of ostracoda

identified. Age of the core ranges from late Wurmian to post Wurmian.
Four ecological zones were recognized.,

BOWMAN, T.E., KORNICKER, L.S.S., Two New Crustaceans: The Parasitic Copepod Sphaeronellopsis monothrix (Choniostomatidae) and its Myodocopid Ostracod

Host Parasterope pollex (Cylindroleberidae). From the Southern New England Coast. Proc. U.S. Nat. Mus. vol.123, no.3613, 28pp., 7 figs., 1 pl.

KANIGIN, A.V., Ordovician ostracoda of the Tersk Mountain Area "Nauka", 151pp., 13 figs., 10 tpls., 20 pls.
60 spp from 24 genera (6 families) are described. 38 spp. 3 genera and one family are new.

MCKENZIE, K.G., The distribution of Cenozoic Marine Ostracoda from the Gulf of Mexico to Australasia.
Systematics Association Publ.No.7, Aspects of Tethyan Biogeography pp.219-238, 5 figs.

MORONI, A., Ostracodi delle risaie italiane - Sistematica, Ecologia, Distribuzione Geografica.
Stadium Parmense, V.79 pp., 25 figs.
32 spp. of ostracoda from the Italian ricefields are described.
One sp., Cyprinotus dextodepressus is new. A twenty page bibliography is given at the end of the paper.

RAMIREZ, F.C., Ostracodos de Lagunas de la Provincia de Buenos Aires. Rev. del Museo de la Plata, Vol.K., Zool.no.73, pp., 5-54, 12 pls.
8 spp., one, Cyprideis hartmanni is new. Distribution chart of Recent nonmarine ostracoda from 9 southamerican countries as well as a bibliography included.

SOHN, I.G., Paleogeographical implications of nonmarine Lower Cretaceous Cyprideinae in Israel, and Metacytheropteron parnesi n.sp. (Ostracoda, Crust). Israel Journ. of Earth-Sciences, vol. 16 pp. 120-131, 1 fig., 1 pl.

TSCHIGOVA, V.A., Ostracoda of the Devonian-Carboniferous boundary of the Russian Platform. "NEDRA" Trudi VNII vol. 49, 223 pp., 15 tabs., 3 figs. 15 pls.

LIST OF PUBLICATIONS ON OSTRACODA FOR 1968

PART II

ANICHINI, G., Herpatocypris andegavensis n.sp. - Potamocypris rullieri n.sp. Due nuove specie di ostracodi reperite and Angers (Francia) Rand.Sem.Fac.Sci.Univ.Cagliari, vol. 3, pp. 587-594, 14 figs.

CHRISTENSEN, O.B., Some Deposits and Microfaunas from the Upper Jurassic in Scania Avh.Sverg.Geol.Und.,Ser.C.nr. 632, Arsb. 62, nr.3,46 pp., 13 figs. Portlandian and Lower Purbeckian ostracoda are described from outcrops and wells. Stenestroemia n.g, Stenestroemia vittaebakensis and Rhinocypris rasilis n. spp.

FERGUSON, E. Jr., Recently Described Species and Distributional Records for North American Freshwater Ostracoda Amer.Midland Naturalist, vol. 79, no. 2, pp. 499-506. List of 91 spp. described between 1957-1966.

GRAMM, M.N., Marine Triassic Ostracodes from South Primorye - on the evolution of the adductors of Cavellinids. "NAUKA" - Ac.Sci. USSR,XXIII IGC. pp. 109-122, 4 figs., 1 tbl.

HASKINS, C.W., Tertiary Ostracoda from the Isle of Wight and Barton, Hampshire, England, Part I. Rev. Micropal., vol. 10, no.4, pp.250-260, 1 fig., 2 pls.

9 spp. described, two, Cytherella (Cytherelloidea) chewtonensis and Cytherella (Cytherelloidea) lacumosa are new.

HASKINS, C.W., Tertiary Ostracoda from the Isle of Wight and Barton, Hampshire, England, Part II. Rev. Micropal., vol. 11, no. 1, pp. 3-12, 1 fig., 2 pls.

13 spp. described, several others newly recorded from the English Tertiary. Two spp., Cyclocypris bulbosa and Paracypris whitecliffensis are new. whitecliffensis are new.

HOLDEN, J.C., Brackish Water Ostracods from La Jolla Submarine Canyon 72000+500 Years Before Present PaleoBios, no. 5,2 figs.

JORDAN, H., Neue taxionomische und biostratigraphische Ergebnisse mikropalaontologischer Untersuchungen im Germanischen Zechsteinbecken unter besonderer Berücksichtigung der Ostracoden.

Ber.deutsch.Ges.geol.Wiss.-A-Geol.Palaont.vol.13,no.2,pp.199-213 5 figs.,1 tbl. 1 map.

Short discussion of the distribution and biostratigraphic importance of ostracoda in the Zechstein of Central Europe and an note on the taxonomy of the Ostracoda from the 'Zechsteinkalk' of the Thuring-Basin. Triceratina suprapermaniana n.sp. described.

KHEIL, J., Importance of the genus Mediocypris (Ostracoda) for the stratigraphy of Miocene of Europe and Asia. Vest. Ustr.ust.geol.vol. 43, pp. 23-36, 1 map., 2 tbls, 2 pls.

LENER-SEGGEV, R., The fauna of Ostracoda in Lake Tiberias, Isr. Journ. Zoology, vol. 17, pp. 117-143, map, 11 pls., 2 tbls. ([7 spp. identified, three, Loxoconcha galilea, Ilyocypris hartmanni and Ilyocypris nitida are new.

MCKENZIE, K.G., Saipanetta, a new name for Saipanella McKenzie, 1967 (Ostracoda, Podocopida) non Saipanella Chamberlin, 1945 (Myriopoda) Crustaceana, vol. 14, pt. 2.

MCKENZIE, K.G., GILL, E.D., Ostracoda from the Murray River Valley West of Wentworth, N.S.W. Austr.J.Sci., vol, 30, no. 11, pp. 463-464.

MARGERIE, P., Inventaire des ostracodes conserves dans les couches inferieures post-campaniennes du Mont-Aime (marne) Mem.Soc.d'Agr., Comm. Sci.et Arts, dept. de la Marne, vol. 83 (Part 2) [In this and the previous work (MARGERIE 1967) 77 spp. were described and illustrated 19 of these were new.

POKORNY, V., Havanardia g.nov., a new genus of the Bairdiidae (Ostracoda, Crust.) Vest.Ustr.ust.geol.vol. 43, pp. 61-63, 3 figs., 1 pl. [Recent, from Cuba, type sp. :Havanardia havanesis n.sp.

SMITH, R.N., Frontal Muscle Scars of Trachyleberidinae and Hemicytherinae (Ostracoda) Science, vol. 161, pp. 808-809, 2 figs.

COLLOQUIUM ON THE PALEOECOLOGY OF OSTRACODA - PAU 1970

Those colleagues who already registered and received postcards should please send them at their earliest convenience.

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