

# MEDITERRANEAN AND PARATETHYS NEOGENE

**Report on Activity  
of the RCMNS Working Groups  
and  
Bibliography 1979–1984**

edited by

**F. Rögl**  
Naturhistorisches Museum, Wien

HUNGARIAN GEOLOGICAL SURVEY  
BUDAPEST, 1985



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## C O N T E N T S

Preface .....	5
Introduction .....	7
Part I. Report on Activity of the RCMNS Working Groups	13
1. Chronostratigraphy and Geochronology	
by M. D. Dermitzakis and F. F. Steininger.....	15
2. Radiometric Ages and Paleomagnetism	
by D. Vass .....	20
3. Vertebrate Migration and Biostratigraphy	
by P. Mein .....	25
4. Non-marine Paleoenvironments and Bio-	
stratigraphy. - Aquatic Paleoenvironments	
by E. Kojumdjieva .....	29
5. Non-marine Paleoenvironments and Bio-	
stratigraphy. - Continental Data	
by J. P. Suc .....	33
6. Mediterranean Marine Megafaunal Paleoenviron-	
ments and Biostratigraphy. - Interim Colloquium	
Athens, 1984, Final Report	
by G. Demarcq .....	38
7. Paleogeography and Geodynamics. - Western	
Mediterranean	
by M. Boccaletti .....	41
8. Paleogeography and Geodynamics. - Pannonian	
Basin, with a report on the Basic Features of	
Geodynamic Development of the Western Carpathi-	
ans in the Neogene by M. Kovač .....	44
9. Western and Central Paratethys	
by I. Cicha .....	50
10. Eastern Paratethys	
by L. A. Nevesskaya and M. F. Nosovsky.....	55

Part II. Bibliography of the Mediterranean and Paratethys Neogene for the years 1979--1984 .....	59
1. Chronostratigraphy and Geochronology .....	61
1.1. Biostratigraphy - Chronostratigraphy .....	61
1.2. Absolute ages - Paleomagnetism .....	74
2. Vertebrates .....	78
2.1. Mammals .....	78
2.2. Non-Mammals .....	104
3. Non-marine Paleoenvironments .....	111
3.1. Continental Vertebrates - Paleobotany .....	111
3.2. Endemic Paratethys Fauna and Flora .....	126
4. Marine Megafauna .....	136
5. Marine Flora .....	147
6. Marine Microfossils .....	148
7. Paleogeography .....	157
8. Geodynamics, Tectonics and Geophysics .....	170
9. Geochemistry - Stable Isotopes .....	185
10. Magmatism and Volcanism .....	189
11. Sedimentology .....	193
12. Paleocology and Climate .....	203
13. Energy and Mineral Resources .....	217
14. Messinian .....	221
15. Regional Mediterranean .....	229
15.1. Western Mediterranean /Iberian Peninsula - Italy - N. Africa/ .....	229
15.2. Eastern Mediterranean /Balcan - Greece - Egypt - Middle East/ .....	248
16. Regional Paratethys .....	256
16.1. Western Paratethys and Upper Rhinegraben ...	256
16.2. Central Paratethys /Alpine / Carpathian Arc - W of Black Sea/ .....	263
16.3. Eastern Paratethys /Southern USSR/ .....	281

## PREFACE

Many years have passed since a group of stratigraphers and paleontologists met in Aix-en-Provence in 1958 to discuss problems of the Mediterranean Neogene. This meeting may be regarded as the beginning of a development which ultimately led to today's detailed biostratigraphic and chronostratigraphic scales; a result that only could be obtained by the active collaboration of a large number of scientists involved in various aspects of Neogene problems. No doubt, however, there are still questions concerning the correlation between sequences of various parts of the Mediterranean proper and the Paratethys and controversial opinions do exist on the definition and correlation of stages: the improvement of correlation tables and the solution of remaining major correlation problems should continue to be one of the major goals of the RCMNS.

In addition, the RCMNS can do more and it should continue to play a pronounced part in the development of stratigraphic concepts. The existing biostratigraphic and chronostratigraphic scales may provide the basis for studies aimed at the understanding of the factors that controlled the distribution of faunal and floral elements in time and space. To achieve this goal results of research on the paleogeographic and geodynamic evolution of the Mediterranean are needed; the same holds for detailed sedimentological and geochemical analysis.

The RCMNS does not intend to extend its fields of interest just because of a "fashion": the additional research items are highly needed for the development of stratigraphy itself. In this respect, the RCMNS can provide a substantial contribution.

Johan E. Meulenkamp  
President of the RCMNS



## INTRODUCTION

The last congress of the RCMNS took place in Athens in 1979, with 320 participants from 31 countries. The contributions were published in 3 volumes containing 1461 pages and the results and proceedings in a fourth volume with 368 pages: *Annales Geologiques des Pays Helleniques*, hors serie, fasc. I--III, 1979, fasc. IV, 1981. At the occasion of the congress a new board of the RCMNS was elected and new working groups were constituted. This renewal should give a new impetus to the future of the organisation.

The goals of the future work within the RCMNS and the outline of the VIIIth congress in Budapest were defined at the Executive Council Meeting at Hármaskút, Hungary 1981. The main focus of research will continue to be the Neogene stratigraphy, but with new concepts. A distinct differentiation between litho- and biostratigraphy should be developed, the different biostratigraphic scales must be calibrated and correlated to stratotype sections, and a well calibrated chronostratigraphy must be sought by magnetostratigraphic and radiometric methods.

The mutual relationship between paleobiology, paleoecology paleoenvironmental control, paleogeographic and geodynamic evolution lead to ecostratigraphy. An understanding of the mechanisms influencing the Mediterranean and Circum-Mediterranean Neogene enable a further approach in the reconstruction of the geohistory of the Mediterranean and Paratethys. The overall effect is the continued exploration of fossil energy and mineral resources in Neogene formations for the profit of the human community.

These new goals of the RCMNS were addressed by the topics of the different working groups, some meeting in small

groups, others organizing interim-colloquias. The working group on vertebrates had a meeting in Utrecht /March 1981/ organized by P. Mein on the evolution and migration of Miocene Cricetidae. For the marine megafaunal group two meetings sponsored by the Paleontological Association were held in London /October 1979 and February 1981/ on "Facies and fauna of the Tethyan Tertiary", organized by E. P. F. Rose and supplemented by a "Field Meeting on Mid-Tertiary carbonate facies and faunas of Malta" in January 1981, organized by E. P. F. Rose and D. W. J. Bosence.

For the group on stable isotopes, C. Vergnaud-Grazzini organized a meeting on "Pliocene paleo-environments in the Mediterranean" /Paris, July 1980/ and a round table on "Relations Méditerranée - Atlantique du Miocene à l'actuel" /Paris, October 1982/.

For the working group on the Paratethys two field meetings were organized in cooperation with the IGCP Project no. 25 /Tethys - Paratethys Neogene/, one in Austria "Österreichische Neogenengebiete" in June, 1980, organized by F. Rögl and F. F. Steininger, the other organized by D. Dolic, N. Krstić and P. Stevanović in June 1981 in Yugoslavia on the "Marine and brackish Neogene of Serbia".

A number of successful interim-colloquia in the time between the large RCMNS congresses stimulated the work and were dedicated to specific problems: in Utrecht /March 21--25, 1983/ the first took place on the "Reconstruction of marine paleoenvironments" organized by J. E. Meulenkamp, C. Vergnaud-Grazzini, A. J. T. Romein and K. Perch-Nielsen in a cooperation of the Int. Nannoplankton Association and the RCMNS. The main topic consisted of the paleoenvironmental interpretation of the marine realm by means of microfossils and geochemistry including the

isotope record.

The colloquium "Mediterranean Neogene continental paleoenvironments and paleoclimatic evolution" was organized at Montpellier /April 18--22, 1983/ by J. P. Suc in collaboration with J. P. Aguilar, P. Ambert, M. Bessedik et al. Beside the correlation of marine and continental zonation a main subject of interest was the reconstruction of the climate of the Mediterranean Neogene.

The working group on marine megafaunas met for "Mediterranean Neogene marine megafaunal paleoenvironments and biostratigraphy" in Athens /September 6--9, 1984/. This colloquium was organized by G. Demarcq, M. Dermitzakis and E. Georgiades - Dikeoulia and considered the evolution and paleoecology of marine invertebrates and vertebrates in the Neogene of the Mediterranean and Paratethys.

The interim-colloquium "Paleogeography and geodynamics of the Perityrrhenian area" was organized in Florence /October 11--13, 1984/ by M. Boccaletti, R. Gelati and G. Moratti. The geodynamic evolution of the Tyrrhenian Sea and the Western Mediterranean was pursued and compared with the Neogene evolution of the surrounding mountain chains and their foredeeps.

An attempt was made by the RCMNS organization to give all members the possibility of a quick access to the newest results in the Paratethys and Mediterranean Neogene. A bibliography of the years 1979 to 1984 was compiled according to the topics of the RCMNS working groups. This was done with the help of active colleagues, the members of the executive council and those responsible in the working groups. Despite the large number of titles we have no doubt missed some important ones.

The current executive council of the RCMNS was elected and authorized by the IUGS at the 27th International Geological Congress in Moscow, 1984:

## OFFICERS:

President	J. E. Meulenkamp
Vice-President	G. Hámor
Secretary	F. Rögl

## VOTING MEMBERS:

Austria:	F. Steininger
Bulgaria:	E. Kojumdgieva
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Italy:	M. Boccaletti
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Rumania:	F. Marinescu
Spain:	C. Dabrio
	J. de Porta
Yugoslavia:	A. Sokac
United Kingdom:	C. G. Adams
	E. Rose
USSR:	V. Krashenninikov

L. A. Neveeskaya

M. F. Nosovsky

Switzerland:

P. Jung

Following working groups of the RCMNS have been established at the 7th RCMNS congress in Athens, 1979:

1. Chronostratigraphy and Geochronology  
Co-chairmen: M. DERMITZAKIS, K. BALOGH  
Co-organizers: L. BENDA, V. KRASHENNINIKOV
2. Vertebrate Migrations and Biostratigraphy.  
Chairman: P. MEIN
3. Non-marine Paleoenvironments and Biostratigraphy.  
Co-chairmen: E. KOJUMDGIEVA, J.P. SUC  
Co-organizers: P. HOCHULI, A. SOKAC
4. Marine Microfossil Paleoenvironments and Biostratigraphy.  
Chairman: J. E. MEULENKAMP  
Co-organizers: C. G. ADAMS, S. IACCARINO, G. MARTINOTTI,  
C. MÜLLER
5. Marine Megafaunal Paleoenvironments and Biostratigraphy  
Chairman: G. DEMARCO  
Co-organizers: L. DAVID, E. GEORGIADES-DIKEOULIA,  
E. ROSE
6. Stable Isotopes.  
Chairman: G. VERGNAUD-GRAZZINI
7. Paleogeography and Geodynamics.  
Co-chairmen: M. BOCCALETTI, G. HAMOR, M. KOVAČ  
Co-organizers: A. M. BORSETTI, I. EL-HEINY, R. GELATI,  
I. MARIOLAKOS, A. SLATZKA

8. Paratethys.

Chairman: I. CICHA

Co-organizers: F. MARINESCU, M. F. NOSOVSKY

Fred Rögl  
Secretary of the RCMNS

P A R T 1

REPORT ON ACTIVITY OF THE R. C. M. N. S.  
WORKING GROUPS FOR THE YEARS 1979 - 1984



REPORT OF THE WORKING GROUP ON CHRONOSTRATIGRAPHY  
AND GEOCHRONOLOGY

by M. D. Dermitzakis and F. F. Steininger

Since the last congress of the RCMNS in Athens 1979 relative rapid progress can be reported in the different fields of the working group. The state of the art in the calibration and correlation of Circum-Mediterranean Neogene biochronologies versus chronostratigraphical stage concepts was given by the late Prof. Dr. A. Papp /Proceedings of the Congress, Athens 1981, p. 73--78/. As a supplement to his compilation one might point out the following most crucial new data:

Neogene:

Palaeogene / Neogene Boundary. Biostratigraphically narrowed down to the *Globorotalia kugleri* zone of Bolli - either a biologic event within this zone /FAD of *Globorotalia dehiscens* s. str./ or the base of the zone with the FAD of *Globorotalia kugleri* s. str. No boundary stratotype was selected so far.

Neogene. The Subcommittee on Neogene Stratigraphy proposed to the International Geological Congress in Moscow a definition of the Neogene in the following extent and subdivision:

		Pleistocene
	Neogene	Pliocene
Cenozoic		Miocene.
	Palaeogene	

The Oligocene/Miocene Boundary. Coincides with the Palaeogene/ Neogene boundary and therefore must be solved

by the ICS - Working Group on the Palaeogene/Neogene Boundary.

The Miocene/Pliocene Boundary. Should coincide with the boundary of the Mediterranean regional stages Messinian and Zanclean and therefore should be defined by a Messinian/Zanclean boundary stratotype.

The Pliocene/Pleistocene Boundary. A proposal for a boundary stratotype - the Vrica section, Calabria, Italy - was presented at the Int. Geol. Congress in Moscow by the Working Group on the Pliocene/Pleistocene Boundary of the ICS and the Subcommittee on Quaternary Stratigraphy. The boundary is placed at the base of the claystone conformably overlying the bed e in the Vrica section. The meeting of the International Commission on Stratigraphy agreed to this proposal and it was forwarded to the voting members of the ICS.

### Stages:

After seven international congresses on the Mediterranean Neogene most problems relevant to the classification, nomenclature and definition of stages in the Mediterranean proper and the Central and Eastern Paratethys have been solved. The stage concepts proposed in Bratislava 1975 seem to be well established, generally agreed upon and are widely used. However, it is the opinion of many colleagues that most of the stages need to be redefined and that boundary stratotypes should be designated as is required by modern high resolution stratigraphy. This concerns, for instance, most of the Early, Middle and Late Miocene and Pliocene stages of the Mediterranean, and nearly all the stages of the Central and Eastern Paratethys, as follows from discussions during a joint meeting of the RCMNS Council, members of the Subcommittee on Neogene Stratigraphy

and RCMNS working group leaders, held in Bratislava, CSSR, in September 1983. Moreover, diverging opinions continue to exist on the ranges of the Aquitanian and the Burdigalian, which seem to be partly due to the location of the stratotypes, accepted by most authors, in the Atlantic bio-province.

The lack of unambiguous definitions of some stage boundaries gives rise to confusion, for instance regarding high resolution chronostratigraphic correlations. It also impedes the use of Mediterranean stages as a standard for the subdivision of the global Neogene. For this reason the Working Group on Chronostratigraphy and Geochronology took the initiative for a re-investigation of stratotypes and asked for the collaboration of specialists to propose boundary stratotype sections. A circular was distributed amongst some 900 colleagues involved in Neogene research, in which precise data and detailed proposals, to be discussed during the Budapest congress, were called for. By February 1985, 120 colleagues had responded to the circular. It is self-evident that only those opinions and proposals are summarized here which are pertinent to /re-/definition of stages and stage boundaries of the Mediterranean and Paratethys.

The list of concrete proposals includes:

- 1/ boundary stratotype for the Romanian stage /ANDREESCU/
- 2/ boundary stratotype for the Dacian stage /ANDREESCU/
- 3/ stratotype for the Miocene/Pliocene boundary /VEEKEN/
- 4/ stratotype for the Oligocene/Miocene boundary /ANGLADA, CATZIGRAS, DEMARCQ/
- 5/ boundary stratotype for the Burdigalian/Langhian /ANGLADA, CATZIGRAS, DEMARCQ/
- 6/ boundary stratotype for the Zanclean/Piacenzian /CITA, IACCARINO, SPROVIERI/
- 7/ boundary stratotype for the Aquitanian/Burdigalian /POIGNANT/

In addition suggestions were received for the designation of stratotypes in Italy /Sicily/, Turkey, Greece and extra - Mediterranean areas, which, however, need further elaboration before being accepted as formal proposals.

Correlation:

Biostratigraphy/Magnetostratigraphy - Radiochronology:  
Most important new data concerning especially the Middle Miocene are published by Berggren et al. /1985, in press/. This publication should function as the fundamental basis for the discussions and the establishment of a revised and recommended "Mediterranean Neogene Time Scale" during the next Neogene congress in Budapest this year.

In addition the already published paleomagnetic data on Pliocene and Pleistocene /stratotype-/ sections within the Central Paratethys /Andreescu, 1981/ several paleomagnetic studies have been carried out and will be presented at the congress.

Chronostratigraphy:

Changes in Middle Miocene magnetobiochronology by Berggren et al. /in press/ particularly effect the correlation, timing and the duration of these stages in the entire Mediterranean and the Central and Eastern Paratethys, which would have to be revised substantially /e.g. Rögl et Steininger, 1983/.

A most recent correlation between the Eastern and Central Paratethys stages and the Mediterranean was submitted by a team of colleagues from the USSR based on new biostratigraphic, magnetostratigraphic and radiometric data. The most crucial changes are: the Caucasian corresponds to Late Egerian only, respectively to Aquitanian only. The Tarkhanian corresponds to the Karpatian, respectively to the Late Burdigalian. The Maeotian/Pontian boundary coincides with the Tortonian/Messinian boundary and the Pontian therefore corresponds to the lower part of the

Messinian only. Tentative correlations are also given for the Pleistocene.

Literature: Berggren, W. A., Kent, D. V. et J. A. Van Couvering, Neogene Geochronology and Chronostratigraphy. - in: Snelling, N. J., Geochronology and the Geologic Time Scale. - Geol. Soc., London, Spec. Paper, 1985 /in press/.

REPORT ON NEW RESULTS OF RADIOMETRIC AGES AND PALEO-  
MAGNETISM

by D. Vass

In the period 1979--1985 several papers dealing with radiometric ages and paleomagnetism of the Neogene in the Mediterranean and Paratethys area appeared.

Radiometric ages - Mediterranean area: A chronology of the Neogene volcanics in the territory of the Western Mediterranean was published by H. Bellon /1981/. D. Tisserant and G. S. Odin /1979/ published the glauconite radiometric ages from the Miocene of NW Africa. A compilation of radiometric ages concerning the Paleogene /Neogene boundary was made by D. Vass /1980/. The ages come not only from the Mediterranean area, but from the world Late Palaeogene and Early Neogene.

Radiometric ages - Paratethys area: In Hungary, radiometric ages of both rhyolite tuffs varying roughly between 13.0 and 22.0 Ma /G. Hámor et al., 1980/ and of basalts from Transdanubia /A. Jámor et al., 1980/ were measured. In 1981 at the 12th Congress of the Carpathian - Balkan Geological Association /Bucharest/ 3 papers were presented concerning the chronology of the Miocene pyroclastics and lavas from Hungary /E. Árva-Sóos et al., 1983/, the chronology of the Miocene volcanism in northeast Hungary /K. Balogh et al. 1983/ and the radiometric ages of young /Upper Neogene - Quaternary/ basalts from Hungary /K. Balogh et al., 1983/. Young basalts in the territory of Slovakia, CSSR, were also dated radiometrically /K. Balogh et al., 1981; J. Kantor and V. Wiegerova, 1981/. The paleomagnetic evaluation of the same basalts was made by O. Orlicky et al., 1981. I. Repcok has studied the chronostratigraphy of the Mid-Slovakian neovolcanics by the

F. T. method. The results were published in 1977, 1978 and in a more complete form in 1981. I. Repcok has carried out further measurements including measurements on East Slovakien Neogene volcanics. New results are in preparation for print. The F. T. method also was used in the study of the Miocene and Pliocene of the Ponto-Caspian region in the USSR /S. S. Ganzej, unpublished/.

Magnetostratigraphy: Magnetostratigraphic investigations were conducted mainly in the Eastern Mediterranean and the Eastern Paratethys areas.

Magnetostratigraphy in the Mediterranean: In northern Turkey the paleomagnetic investigation was carried out on some basaltoids and ore deposits in the Pontic ranges /M. Güner, 1981/. The chronostratigraphic position of the Pikermian regional stage was verified by paleomagnetic measurements /D. Heye et al., 1981/. The biostratigraphy of the Late Miocene on Crete was correlated with the magnetostratigraphy /C. G. Langereis et al., 1984/. A magnetostratigraphic study on some Late Miocene vertebrate sites of Greece was conducted by S. Sen /1984/. In the Western Mediterranean a paleomagnetic investigation on fluvial sediments was done in the Ebro Basin, Spain /P. Turner et al., 1984/. In the Eastern Atlantic - Canarian Island region - a calibration of the Late Neogene calcareous plankton datum planes with the paleomagnetic record of DSDP site 397 was made by R. Mazzei et al. /1979/. The results were correlated with the Moroccan and Mediterranean Late Neogene.

Magnetostratigraphy in the Paratethys: Great progress in the correlation of the Eastern Paratethys Neogene with the Mediterranean and Central Paratethys was enabled by paleomagnetic investigations in the Eastern Paratethys area. In the Ponto - Caspian region /USSR/ paleomagnetic investigation of the Late Miocene and Pliocene and a comparison

with the biostratigraphy were carried out by V. N. Semenenko and M. A. Pevzner /1978/. In the Paleocaspian area of the Western Ukraine /USSR/ a magnetostratigraphic scale for the Late Cenozoic was established /G. Z. Gurary, V. M. Trubikhin, 1981/. The chronology of the Pliocene - Pleistocene formations in the Dacian Basin /Rumania/ based on mollusc, mammal fauna and magnetostratigraphy was investigated by I. Andreescu et al. /1981/. On the basis of magnetostratigraphy and biostratigraphy a correlation of the Late Neogene of Central Asia and Europe was established by M. A. Pevzner et al. /1982/. In the area of the Central Paratethys some results of paleomagnetic investigations of the Late Pliocene and Quaternary in Hungary were published by H. B. S. Cooke and A. Rónai /1979/.

From areas outside the Mediterranean and Paratethys, particularly from the Sivalik formation /India and Pakistan/ the results of paleomagnetic investigations were published by N. D. Opdyke et al. /1979/, A. Azzaroli and G. Napoleone /1982/ and G. D. Johnson et al. /1984/.

Revised radiometric time-scale of Paratethys Neogene:  
The last version of a radiometric time-scale of the Paratethys Neogene was presented at the 6th Congress of RCMNS in Bratislava, 1975 and slightly modified at the 25th Int. Geol. Congress in Sidney, 1976 /D. Vass et al; 1975; D. Vass and G. P. Bagdasarjan, 1978/.

During the last 10 years many new radiometric ages concerning the Paratethys Neogene have emerged. Therefore a revised radiometric time-scale of the Paratethys Neogene will be presented at the 8th RCMNS Congress in Budapest /K. Balogh, J. Halmai, I. Repčok, D. Vass/. In this scale the Egerian is not radiometrically calibrated, because no

reliable radiometric ages concerning the Egerian exist. Newly obtained data on the Eggenburgian, Ottnangian and Karpatian have enabled the radiometric calibration of the Early Miocene stages. New data on the Badenian and Sarmatian do not contradict the older ones. Only the base and the top of the Sarmatian seem to be slightly older than in the previous scale. The subdivision of the Sarmatian has also changed slightly. The radiometric calibration of the Late Miocene and Pliocene was established on the basis of radiometric age and refined using certain magnetostratigraphic data, particularly those from the Eastern Paratethys area.

Ma

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 Quaternary

---

 Romanian 1,8


---



---

 Dacian  $3,7 \pm 0,1$ 


---



---

 Pontian  $5,6 \pm 0,2$ 


---



---

 Pannonian  $8,5 \pm 0,5$ 


---



---

 Sarmatian  $11,5 \pm 0,5$ 


---



---

 Badenian  $13,6 \pm 0,2$ 


---



---

 Karpathian  $16,5 \pm 0,5$ 


---



---

 $17,5 \pm 0,5$  /?/


---

 Ottnangian
 

---

19,0


---

Ma

---

 Eggenburgian
 

---

22,0

---

 Egerian
 

---

?

At the suggestion of the president of the RCMNS J. E. Meulenkamp, an attempt was made to compile all radiometric ages of the Mediterranean and Paratethys Neogene. D. Vass sent a questionnaire on this topic to many potential collaborators. A more or less complete answer was obtained from Italy /A. M. Borsetti et al./. H. Kreuzer and J. M. Cantagtel have sent great numbers of reprints dealing with radiometric ages of Tertiary rocks. From Czechoslovakia all reliable radiometric ages of the Neogene volcanic rocks were compiled by D. Vass. The compilation of radiometric ages of the Neogene from the Mediterranean and Paratethys region has not yet been accomplished.

REPORT OF THE WORKING GROUP ON VERTEBRATE MIGRATIONS AND  
BIOSTRATIGRAPHY

by P. Mein

L'une des activités essentielles du Working Group a été l'Intérieur-Colloquium sur les Paléoenvironnements continentaux qui s'est tenu à Montpellier en Avril 1983 /Paléobiologie continentale, vol. XIV, n<sup>o</sup> 2, Montpellier, 1984/ et dont Monsieur J. P. SUC présente un rapport général. Treize communications traitaient de Mammifères.

Pour les grands Mammifères, on peut utiliser des espèces indicatrices, proches de formes actuelles. Les Mammifères végétariens sont de meilleurs indicateurs que les Carnivores car ils dépendent directement du climat. On peut également utiliser une méthode écologique supposant connues les relations de locomotion, nutrition, poids, mode de vie de toutes les espèces. Ces données transcrites sur des graphiques /histogrammes d'Andrews/ permettent de comparer des faunes fossiles à des populations actuelles de biotope connu /Artemiou, p. 91; Guérin, p. 287/. Bien que moins précis que les renseignements fournis par la palynologie, ceux fournis par les grands mammifères sont souvent les seuls utilisables pour la connaissance de leurs paléoenvironnements.

Pour les petits Mammifères, le problème est plus complexe; la plupart des formes néogènes appartiennent à des genres éteints. La morphologie dentaire permet parfois la reconnaissance d'exigences écologiques /écureuils volants, castors, desmans, formes fouisseuses/, mais ces cas demeurent rares. C'est seulement par l'analyse d'une série d'associations entre formes de divers gisements que l'on peut app-

rocher les paléoenvironnements. Enfin, les petits Mammifères sont moins strictement dépendants de leur milieu que les grands Mammifères; ils vivent dans des niches écologiques et peuvent tomber en léthargie quand les conditions climatiques sont défavorables.

On peut néanmoins espérer de bons résultats quand on dispose d'un grand nombre de gisements sur une surface géographique restreinte. Van der Meulen et de Bruijn /1982/ ont réussi à trouver une relation entre la morphologie dentaire et l'habitat pour la famille des Gliridae. Daams et Van der Meulen /p. 241/ utilisant ces données et travaillant sur le pourcentage des diverses familles de rongeurs présentent une reconstitution des variations climatiques pour le Miocène du bassin de Teruel /Espagne/.

C'était la première fois qu'un tel colloque avait lieu et si les résultats présentés semblent légèrement divergents, les discussions ont été fructueuses et les méthodes, une fois testée, pourront être appliquées de partout.

Depuis le Colloque d'Athènes, de nombreux progrès ont été effectués dans la connaissance des faunes bordant le domaine méditerranéen. De nombreux gisements néogènes chinois peuvent être corrélés avec les gisements européens /Li, Wu, Qiu, 1984/. En ne citant que quelques sites miocènes, on trouve:

- Miocène inférieur: Xiejia /Eucricetodon, Plesiosminthus, Brachypotherium, Oioceros/ - MN 2/3.

- Miocène moyen /Orléanien/: -Shanwang /Plesiaceratherium, Paleotapirus, Lagomeryx, Palaeochoerus, Ursarus, Diatomys/  
- MN 4.

-Xiacaowan /Plesiaceratherium,

Micromeryx, Cricetodon , Megacricetodon , Democricetodon,  
Diatomys, Dionysopithecus/ - MN 5.

- Miocene moyen /Astaracien/: -Jialongkou /Sansanosmilus,  
Percrocuta, Chilotherium/ - MN 6.

-Tongxin /Pliopithecus,  
Gomphotherium, Platybelodon, Hispanotherium/ - MN 7.

-Tund Gur /Machairodus,  
Metailurus, Palaeotragus, Platybelodon évolué/ - MN 8.

- Miocene supérieur /Vallesien/: - Bahea /Hipparion,  
Shaanxispira/ - Mn 9/10.

- Miocène supérieur /Turolien/: -Lufeng /Indartos, Ictit-  
herium, Sivapithecus, Sinoadapis, Cercopithecidae, Lacco-  
pithecus Dinosorex, Anourosorex/ - MN 11.

-Ertemte /Fahlbusch & Chiu,  
1984/ - MN 13/14.

Dans le sous-continent indien, de nombreux gisements ont  
été étudiés par: De Bruijn & alii, 1981; Dehm & alii, 1982;  
Flynn, 1982; Munthe, 1980; Wessel & alii, 1982; De Bruijn  
& Hussain, 1984; Andrews & Cronin, 1982; Barry & alii;  
1982; Pilbeam, 1982.

Un gisement miocene moyen de Thaïlande: Li /Ginsburg &  
Ukkapimapan, 1983/, vient de livrer des petits mammifères  
permettant une corrélation précise avec la Lower Manchar  
Formation, tout en indiquant un biotope plus humide.

En Moldavie, A. Lungu a fait connaître, en 1981, une faune  
de petits Mammifères vallésiens montrant de grandes ressem-  
blances avec les faunes comparables d' Europe occidentale.

L'Arabie Saoudite a livré des gisements étudiés par  
Whybrow & alii, 1982; Thomas & alii, 1982.

Les données récentes sur les différentes provinces paléogéographiques du domaine méditerranéen sont analysées dans Bernor, 1984. Dans chaque province, la latitude peut apporter des modifications de faune, par exemple: le Vallésien du Valles-Penedes est bien plus humide que celui de Teruel; de même le Turolien de Lufeng est bien plus humide que celui de Qinyang.

Un autre aspect important des recherches récentes a été consacré à l'étude des voies et des époques de migrations. Aguilar & alii, 1984, mettent en évidence une voie trans-méditerranéenne permettant un passage Est-Quest au Miocène terminal. De Bruijn & Hussain, 1984, envisagent une migration d'âge MN 6 amenant les Myocricetodontidae originaires du sous-continent indien sur la Turquie, l'Arabie et l'Afrique du Nord; à la même époque, il y aurait eu entrée des Rhizomyidae en Afrique. Le passage par Gibraltar dans le sens Europe-Afrique au Miocène terminal, est attesté par la présence à Ain Guettara d'Eliomys, Apodemus, Prolagus, Cricetus /Brandy & Jaeger, 1980/. Le peuplement des îles de Méditerranée occidentale, au Miocène terminal, est discuté par Moya Sola & alii, 1984. Thomas, 1984, met en évidence plusieurs migrations de Bovidae de l'Asie vers l'Afrique au cours du Miocène moyen et supérieur. La migration des Boselaphini /Helicoportacina/ d'Asie en Afrique pourrait être synchrone de celle des Myocricetodontidae et Rhizomyidae.

Je termine en rappelant la parution de l'important travail de Savage et Russel, 1983: Mammalian Paleofaunas of the World qui pour la première fois cite les faunes de Mammifères fossiles du monde entier avec les corrélations vraisemblables.

REPORT OF THE WORKING GROUP ON NON-MARINE PALEOENVIRONMENTS AND BIOSTRATIGRAPHY. Part 1: AQUATIC PALEOENVIRONMENTS

by E. Kojumdieva

The working group "Non-marine paleoenvironments and biostratigraphy" spontaneously split into two subgroups - aquatic and continental. There are few common points between these groups and their activities are therefore reported separately.

The activity of members of working group "Aquatic paleoenvironments" concentrated mainly on brackish and freshwater isolated basins of the Paratethys and their endemic faunas. This is particularly true for the period between the two congresses in which similar studies in the Tethys area were virtually lacking.

The work on nonmarine basins in the Paratethys area and their faunas was intensive but not well coordinated. This was in part due to the illness and death of the head of the group Prof. Dr. A. Papp as well as to inadequate participation of the members of the subgroup at the 1983 interim colloquium in Montpellier.

An attempt was made to systemize and unify the paleoecological terminology and methods. No unification was achieved, but comparison with paleoecological results and methods in marine megafaunas /were an identical inquiry took place/ showed some consistent differences. These differences /uniformity of trophic groups, poor genetic and specific composition, high morphological variations etc./ had been noted earlier by Kojumdieva, Neveeskaya and Iliina as characteristic features of faunas in isolated non-marine

basins. The results confirmed their significance and general validity.

In the years after the Athens congress, three large monographs on Paratethys brackish sediments and faunas were compiled and submitted for print: the volumes "Pannonian" and "Pontian" of the series "Chronostratigraphie und Neostratotypen", and the "Molluscan History of the Eastern Paratethys". They discuss regional stratigraphy and correlation on the basis of different groups of organisms. Apart from that, a number of papers usually dedicated to a single group were published /compare "Bibliography"/.

More important new works on brackish and freshwater basins and organisms are as follows: Kozakhurian molluscs were revised and their distribution studied. It was established that certain elements were in common with the Ottnangian molluscs, i. e. that the two brackish basins were connected. Representatives of the genus *Rzehakia* occur also in Tarkhanian sediments /Goncharova, 1981; Kvalishvili, 1979; Popov, 1983/.

The evolution of molluscs and their use in the stratigraphic subdivision of Middle Miocene nonmarine sediments in the Eastern Paratethys /Tshokrakian, Karaganian, Konkian/ were discussed. Similar but not identical subdivision schemes were proposed, particularly for the Karaganian regional stage /Belokrys, 1980; Kvaliashvili, 1979; Zgenti, 1981/. Information on diatoms was also published /Temniskova, 1984; Temniskova & Kozyrenko, 1982/.

Studies of the Sarmatian regional stage and the respective fauna and marine flora were intensive and covered foraminifera /Bobrinskaya, 1981; Maissuradze, 1981/, molluscs /Bohn--Havas, 1983; Ionesi & Vele, 1981; Kojumdgieva, 1981;

Mukhelishvili, 1980; Stevanovic & Paramonova, 1983/, ostracods /Hanganu & Grigorescu, 1981; Karmishina, 1979; Stancheva, 1984/, bryozoas /Bagdasarjan & Ponomareva, 1982; Belokrys, 1980; Ponomareva, 1979/, diatoms /Kozyrenko, 1982; Rehakova, 1980; Temniskova, var./, nannoplankton /Stradner & Fuchs, 1979/ as well as certain paleogeographic problems /Kojumdgieva, 1983/.

The subdivision and faunistic characteristics of the Pannonian regional stage were discussed in the respective monograph, paleoecological problems studied on the basis of molluscs by Korpás-Hódi /1983/

Maeotian molluscs and their stratigraphic and paleogeographic significance were studied by Badzoshvili /1979, 1983/, Kojumdgieva /1979/, Stevanovic & Iлина /1982/.

Pontian sediments and the respective faunas are discussed in the above mentioned monograph. Some molluscs /Papaianopol, var./ and freshwater diatoms /Temniskova & Ognyanova, 1979, 1983/ were also described.

The Pliocene /Dacian - Romanian/ brackish and freshwater sediments in the Dacian Basin were subdivided in zones according to molluscs and related to type sections and paleomagnetic studies /Alexeeva et al., 1983; Andreescu, 1983; Andreescu et al., 1981/. Ostracod zones were defined /Stancheva, 1981/ and the molluscs revised /Pana et al., 1981; Papaianopol & Lubenescu, 1983/. The Pliocene in the Euxinian Basin and the respective fauna were studied by Babak /1983/, Belokrys /1982/, and Taktakishvili /1984/. Akchagyan brackish molluscs and Dacian - Romanian freshwater molluscs were described in the Dardanelles /Taner, 1982/.

In conclusion, the efforts of the subgroup in the period after the Athens congress were directed mainly at further precision in biostratigraphy and correlation of brackish and freshwater sediments from the Paratethys, as well as at the development of certain ideas voiced in the preceding period. This concluding trend is expressed not only in the monographs but also in a part of the other papers.

A number of problems is still controversial or unsolved, for instance the subdivision, range and correlation of the Middle Miocene regional stages in the Eastern Paratethys, the subdivision and range of the Maeotian regional stage, the correlation of the lower boundary of the Pontian outside the Paratethys etc. The lack of new works on brackish faunas and paleoenvironments in the Mediterranean is a severe obstacle for correlation. The studies on the different groups and intervals in the Paratethys are likewise irregular. For example, the investigation of the fauna of the Paludia - beds from the Pannonian Basin lags considerably behind. Molluscs remain the principal object of study; the studies on ostracods were less intensive than in the preceding period but those on diatoms are in progress.

Studies on faunistic and floristic associations, aimed at paleoenvironmental reconstructions, continue. More important works are those of Badzoshvili /1979, 1983/, Belokorys /1982/, Korpás-Hódi /1983/, Temniskova & Ognyanova /1984/. The quality of the papers is good, but the number is small, particularly if we take into account the high potential.

REPORT OF THE WORKING GROUP ON NON-MARINE PALEOENVIRONMENTS AND BIOSTRATIGRAPHY. Part 2: CONTINENTAL DATA  
by J.-P. Suc

I wish to pay a tribute to my predecessor, the late Professor A. PAPP.

The activity of our group was concentrated mainly on the interim-colloquium held in Montpellier /18--22 April, 1983/ in connection with the "Vertebrate migrations and biostratigraphy" Working Group on the topic "Mediterranean Neogene continental paleoenvironments and climatic evolution". Sixty five colleagues attended this meeting which was a great success and thirty five contributions have been published in a special issue of "Paleobiologie Continentale".

I do not intend to summarize the results of this interim-colloquium but wish to include them with the more recent ones according to the following scheme: vegetational landscapes and paleobioprovinces, climatic evolution, stratigraphic remarks.

1. Vegetational landscapes and paleobioprovinces.

The data were obtained mainly by paleobotanical methods /macroremains and pollen grains/ but also from mammal paleontology. Nevertheless, if mammal records are able to reveal what kinds of vegetation existed /woodlands, open vegetations/, paleobotanical evidence is essential to define them precisely /mangrove, sclerophilous, mixed mesophilous, deciduous forests, xeric shrublands, savanna, steppe, tundra/ on the basis of their floristic composition. The validity of the compared information between the different provinces of the Mediterranean area s. l.

depends rather largely on the biostratigraphic control generally provided by mammals /chiefly rodents/ and sometimes by planktonic marine organisms for sections located on the continental shelf. Some datings result from radiometric and paleomagnetic measurements.

As early as the Late Miocene, forests were distributed all over the Mediterranean area s. l. with an intense complexity and a wide diversity in the vegetation pattern in relation to the paleogeographic characteristics. From the Earliest Miocene, evergreen sclerophilous forest /e. s. f./ with Lauraceae, Engelhardtia, Hamamelidaceae, Sapotaceae, Oleaceae, etc. generally grew in the Mediterranean area s. l; in some provinces /Portugal, northwestern and southeastern Mediterranean/ they contained tropical elements such as Bombax, Mimosaceae, Meliaceae, Alchornea. Moreover, other regions in the northwestern Mediterranean were occupied by a semi-arid open vegetation, locally in coastal regions close to an impoverished mangrove /only one ligneous component, Avicennia/. Differences also existed according to a latitudinal and altitudinal distribution /passage to mixed mesophilous forest - m. m. f. - then to deciduous assemblages/. The greatest development of these woody landscapes occurred in the Late Burdigalian - Early Langhian.

The data on the Upper Miocene vegetations are more sparse: the different types of vegetation seem to have been alternately predominant according to paleogeographic and paleoclimatic variable conditions. The tropical elements were confined to southeastern Mediterranean regions.

Information on the Messinian is scarce and partly contradictory in one is not aware of the difficulty of the chronostratigraphic correlations for such a short and complex period.

Pliocene vegetational history is better known. The Zanclean began with forests spreading /e. s. f. in Portugal, locally in southern France and northeastern Spain with swamp associations; m. m. f. in other regions/ while xeric open vegetations of eastern and southern Spain effected the transitional between the Miocene semi-arid assemblages and the Late Piacenzian steppic associations. Some tropical elements still grew in the southeastern Mediterranean area. So, great differences existed according to latitude and altitude.

## 2. Climatic evolution.

Sedimentary and geomorphology evidence also contributes effectively to describe climatic characteristics.

The results are summarized in three compilation charts presented in the conclusions of "Mediterranean Neogene continental paleoenvironments and climatic evolution" /Paleobiologie Continentale, 1984/.

Many converging data are to be underlined:

- the Miocene thermic maximum noticed in the Early Langhian;
- the progressive /and cyclic/ climatic deterioration in the Upper Miocene towards a more contrasted seasonal rhythm;
- the Zanclean pronounced improvement;
- the successively stronger deteriorations /during the Zanclean, close to the Zanclean-Piacenzian boundary, and in the Late Piacenzian/;
- the improvement before the Plio-Pleistocene boundary.

From the Messinian and mainly during the Pliocene, the effects of Arctic glaciations were stronger than those of Antarctic ones; modern Mediterranean climatic cycles started during the Late Piacenzian.

Theoretical climatic models have emerged from sedimentary studies in which alternating monsoons influenced the global climatic phases.

### 3. Stratigraphic remarks.

The value of the paleoenvironmental and paleoclimatic data on the Mediterranean area s. l. is highly dependent on bio- and chronostratigraphic accuracy. Climatostratigraphic relationships have been suggested between northwestern Europe and Mediterranean regions through pollen analysis; this moreover permits a correlation of the climatic steps with planktonic marine scales and isotopic curves under the condition that the studied sections represent a sufficiently long period.

### Conclusions and future prospects.

First, one must take into consideration the endeavours in the different disciplines to reconstruct continental paleoenvironments. In any case, analogies with present environments are more and more needed. For instance, the progress in pollen analysis /considered more from a botanical point of view/ is essential.

Quaternarists' methods are now commonly used with success in Neogene series and therefore paleoenvironmental and stratigraphic contributions during these last six years were fundamental.

Certain geologic periods /Upper Miocene and, particularly, Messinian/ and regions /central and southern Spain, southern and eastern Mediterranean/ remain to be systemically investigated.

Stratigraphic applications of climatic curves must be intensified and look promising for Upper Miocene and Pliocene correlations, especially between the Tethys and Paratethys.

To conclude, everyone expects a successful Mediterranean Neogene Congress on Ecostratigraphy from which will arise a more elaborate knowledge of continental paleoenvironments and an increasing contribution of continental data to the Mediterranean Neogene stratigraphy.

MEDITERRANEAN MARINE MEGAFUNAL PALEOENVIRONMENTS AND BIO-  
STRATIGRAPHY - INTERIM-COLLOQUIUM ATHENS, 1984.

FINAL REPORT

by G. Demarcq

Participants numbered 75, representing 10 countries. There were 31 abstracts, distributed before the colloquium, and 24 communications presented. The latter fell into 4 topics. An overall analysis in three major themes is given below.

Report of scientific conclusions: The communications, conferences and discussions can be grouped into themes encompassing fundamental data for the Mediterranean Neogene.

1. Paleoenvironmental analysis
2. Paleobiogeography and structural development
3. Neogene faunal events

Paleoenvironmental analysis: Reconstruction of the paleoenvironment, particularly in the littoral neritic biotope, was possible for numerous parts of the Tethys, and a little for the Paratethys, at all Neogene ages in which the marine sediment is rich in information in megafaunas. The following groups contributed: Madrepora, Bryozoa, Brachiopoda, Mollusca, Crustacea, Echinodermata, Pisces. The results permit spatio-temporal correlations since the different paleo-milieu situations bear witness to the evolution of the basins.

Paléobiogeography and structural development: Abundant data on different taxa and regions allow us to trace out the bioprovince and to follow its destiny in time. Communications with the Middle East, the dominant Atlantic influences, cleavages between the western and middle to eastern Mediterranean and passages to the Paratethys until the end of the Badenian have a direct influence on the paleogeography and hence the structural evolution of the con-

tinental margins. These developments are also applicable to the paleo-oceanography /thresholds, currents, faunal diffusion/. Study of differential migration of pertinent taxa appears mandated for a coherent synthesis.

Neogene faunal events: The study of marine megafaunal composition with classical methods supplemented by paleoecological analysis /example: taphology/ and biogeographic analysis requires retracing of major events of the Neogene. It is important to delimit and explain them. The main considerations are: the varying difficulties of relating Oligocene and Miocene, the flowering at the end of the Burdigalian/Langhian, the sedimentological and structural crisis of the Serravallian, the Messinian crisis, the Andalusian phenomenon, and the relative slowdown in Pliocene reproduction. Paleothermal evolution has been represented by a qualitative curve for the Mediterranean Neogene, with a tentative attempt at quantification.

As these data furnished by marine megafaunas should aid in advancing new aspects of knowledge on the Neogene. Ecostratigraphy and "eventology" are the keywords. We hope that marine megafaunas, a rich and significant material will be considered to be a true witness of their time and as such will bring us as much as if not more than the super-star taxa of the biostratigraphic methodology of the 1960's. It is in this direction that current research is proceeding.

After the colloquium, on Monday, September 10, 1984, at the Department of Stratigraphy-Geography-Climatology of the University of Athens /Faculty of Earth Sciences/ a meeting was held between:

Prof. N. Symeonids, President of the 7th Congress of the

RCMNS; Dr. F. Rögl, Secretary of the RCMNS;  
Ass. Prof. M. Dermitzakis, President of the Organizing  
Committee of the Interim-Colloquium;  
Prof. G. Demarcq, Chairman of the W. G. "Megafaunal Pa-  
leoenvironments and Biostratigraphy";  
Ass. Prof. E. Georgiades-Dikeoulia, Responsible of the  
Organizing Committee of the Interim-Colloquium;  
Dr. E. P. F. Rose, Co-Organizer of the W. G. "Marine Me-  
gafaunal Paleoenvironments and Biostratigraphy";

The above persons, following the results of the colloquium and with a desire for the greatest efficiency in the future, propose the creation of an "International Neogene Marine Megafauna Association". Its goals, if possible in conjunction with the IGCP Project "Global Neogene" and the SNS, are to assemble researchers in all countries working on the same theme and, by fruitful and structured exchanges, to formulate the propositions for a synthesis on the history of life in the Neogene from marine documents of all kinds.

REPORT OF THE WORKING GROUP ON PALEOGEOGRAPHY AND GEODYNAMICS. Part 1: WESTERN MEDITERRANEAN

by M. Boccaletti

During the last three years the Working Group "Paleogeography and Geodynamics" has mainly aimed at planning several time-slices and maps of certain regions in the Mediterranean and Circum-mediterranean areas.

In particular, the Perityrrhenian regions /Alps, Apennines, Maghrebidides chain and western Mediterranean basins/ and the Pannonian basin have been chosen as type areas for a comparison concerning the paleogeographic and geodynamic evolution.

This project has been contemporaneously developed by two subgroups who have operated separately.

The main goal of the subgroup dealing with the project "Neogene paleogeographic and geodynamic evolution of the Western Mediterranean" is the palinspastic reconstruction of the Perityrrhenian section, where the relationships between tectonics and sedimentation have been emphasized and geophysical data collected up to now have been taken into consideration.

This group organized an Interim-Colloquium on "Paleogeography and Geodynamics of the Perityrrhenian Area", held in Florence /October 1984/ at the Dipartimento di Scienze della Terra. Numerous researchers from Italian and foreign Universities took part in this meeting and many of them presented the "state of art" of their researches.

The Interim-Colloquium was subdivided into four scientific sessions:

- 1/ Geology of the Tyrrhenian Sea and of some Western Mediterranean Areas. During this session the most recent sedimentological and geophysical data of the Tyrrhenian Basin were presented, correlated with the data on land.
- 2/ Neogene evolution of Sardinia, Sicily and Southern Apennines.
- 3/ Neogene evolution of the Northern Apennines. Connection with the Southern Alps and an outlook on Messinian Geodynamics.

In the course of these two sessions a discussion was made about the paleogeographic and geodynamic aspects of different sectors of the Alps-Apennines chain, correlating the tectono-sedimentary data with the geophysical and underground data.

- 4/ Neogene evolution of the Northern Alpine Molasse basin and of the Central Paratethys.

This session was dedicated to the paleogeographic and geodynamic evolution of the Central Paratethys section and to the correlation with the Alpine sections.

Finally, the state of advancement of 8 paleogeographic maps was presented, relative to selected periods from Upper Oligocene to Lower Pliocene, from the South-Alpine area to Sicily, including Corsica and Sardinia. Furthermore, some attempts of Neogene geodynamic evolution of the whole sectors were presented with possible interpretation models.

The abstracts of the scientific communications were issued at the meeting, whereas the complete works are in press and will appear on a special issue of the "Giornale di Geologia" edited by Boccaletti, Gelati and Ricci Lucchi.

Furthermore, researchers in Spain, Morocco and Tunisia have been recently contacted to contribute to the completion of the paleogeographic maps with the westernmost sectors of the Mediterranean.

REPORT OF THE WORKING GROUP ON PALEOGEOGRAPHY AND GEODYNAMICS. Part 2: PANNONIAN BASIN  
BY M. KOVAČ

At the RCMNS Executive Council Meeting in Harmaskút, Hungary /Sept. 1981/ the working group decided to establish pilot studies on the "Paleogeography and Geodynamics of the Western Mediterranean" and on the "Palaeogeography and Geodynamics of the Pannonian Basin". This period coincided with the project of the IUGS Research Development Programme /RDP/ "Neogene Paleogeographic Map Series on Scale 1:1 000 000" designed by G. Hamor and carried out by the Hungarian Geological Institute. A substantial part of the work in the countries of the Alpine - Carpathian mountain chain and Pannonian region was to be carried out by the same scientific workers. In the RDP session in Sopron /May 1982/ it was therefore decided that within the activity of the working group "Paleogeography and Geodynamics", the Neogene paleogeographic map series would be supplemented by additional maps. Those would take into account not only the paleogeographic, but also the palinostatic and geodynamical situation of individual, temporally precisely determined Neogene periods. At the interim-colloquium "Paleogeography and Geodynamics of the Perityrrenian Area" /Florence, 1984/ the pattern of high initiative of the pilot studies was set. A number of papers on the paleogeography and geodynamics in the region of the Alpine-Carpathian mountain chain and the Pannonian backarc region were also presented.

In the planned congress of RCMNS in Budapest, besides the "Neogene Paleogeographic Map Series" the work of geologists in the region of the Pannonian Basin and the Alpine-Carpathian mountain chain carried out within the years 1979--1985 will be presented.

Herein I will present the state of knowledge and a model of the paleogeographic and geodynamical development of the Neogene for the Western Carpathians. This is only partly valid for further segments of the Alpine-Carpathian mountain chain owing to peculiarities of their development in time and space. In future it will also be necessary to work out similar models for other segments or for the Alpine-Carpathian suture zone and the intra-Carpathian regions. In this way an attempt at an accurate interpretation of the geodynamics of the Neogene in the region of the mountain chains and the back-arc Pannonian Basin could be made.

#### Basic Feature of Geodynamical Development of the Western Carpathians in the Neogene :

The Neogene period is considered to be a final stage of development of the Alpine-Carpathian suture zone. The folded belt whose formation is being completed is generally a region of northward, northeastward compression, while the backland region /from Karpatian to Middle Miocene/ represents a region of northeast-southwest to east-west extension. The magnitude of space reduction in the front units of the mountain arc is equivalent to space growth in the backland region by extension. During the Miocene in the region of the Western Carpathians, a 40 km space reduction in the southwest and about 100 km in the northeast is considered /Kovač, 1979/. Similarly, Royden et al. /1983/ estimate the extension of the backland region at 100 km during the Middle and Late Miocene; this corresponds to the same space reduction in the Outer Carpathian thrust belt /Horváth, 1984/.

Development of the suture zone in this period is influenced by tectonic activity longitudinal to the folded belt; transversal activity enables an independent development of individual segments and, at the same time, completion of arc formation is accompanied with origin of oblique-slip mobile zones /Miall, 1984/. After folding and accretion of outer /flysch-/ units to the mountain chain during formation of sedimentary areas in backland region, tectonics caused by subcrustal erosion and the thermal history of the Pannonian Basin becomes predominant /Stegena et al, 1975; Vass, 1979; Royden et al., 1983; Horváth, 1984/.

Reconstruction of the geodynamical development of the Alpine - Carpathian suture zone in the Miocene /present day Alpine - Carpathian mountain chain/ is based on observation and reconstruction of the original formation, distribution, migration and disappearance of individual sedimentary areas in time and space. The important role was played, at the same time, by such factors as: mobility of foreland, direction and rate of movement of individual segments of the mountain chain, interblock stress at block junctions and in adjacent block interiors in these segments.

Sedimentation in individual basins in the Miocene in the territory of the Western Carpathians changed in time and space. Its main feature is the migration of the sedimentation centre in the outer units owing to the advancing front of nappes generally towards the foreland. In the inner units a reverse trend is observed, i. e. towards the backland of the mountain chain south- and southeastwards. While the initiator of basin formation in the outer Western Carpathians was compression tectonics, formation of basins in the mountain chain of the inner Western Carpathians and in the backland was controlled especially by extensions.

It should be pointed out that the development of the Alpine - Carpathian suture zone did not take place in all segments of the present day mountain chain at the same time. This fact is also reflected in the stage of development of individual sedimentary areas, in the front of forming mountain chains, as well as in the backland region. It does not permit an exact chronostratigraphic limitation of their uniform origin and disappearance; in contrast, we may state that individual stages in individual segments /also within them/ are overlapping. Generally, for the region of the Western Carpathians, the end of activity at completion of arc formation and its backland region from W to E, and migration of the region of maximum sedimentation in time, expressed by sedimentation rates is observed. The migration follows from the foredeep /Early Miocene/ through the region of the mountain chain /Middle Miocene/ to the backland region /Late Miocene - Pliocene/.

The main feature of the development of the suture zone in the Western Carpathian segment /the present day Alpine - Carpathian mountain chain/ in the Early Miocene is the completion of the nappe structure of the outer units of the Western Carpathians under permanent compression, whose maximum is manifested by formation and overthrust of nappe units at the front. During this stage the Carpathian foredeep, partly on the activated foreland of the originating mountain chain /Bohemian massif, North-European platform/, partly in the region of outer /flysch-/ units /e. g. Vienna Basin, Pouzdřany and Ždanice units/ is being formed in genetic continuation of the original flysch sedimentation area. The sedimentation area of the foredeep in this period is limited by longitudinal as well as by transversal tectonics and reaches its maximum sedimentation rate. The foredeep is connected through regions characterized

by active transversal tectonics with the sedimentation areas in the backland of the folding and uplifting outer Western Carpathians /longitudinal intramountain basins/. This sedimentary region follows the boundary of the outer and inner units in the SW part and further on, is limited by activation of old suture zones of the inner Western Carpathians. Its formation is bound to accretion of individual mountain chain units /outer and inner/ differing in age and development. Later on, since Karpatian time - in the region of the Vienna Basin or in the transition zone of the Eastern Alps and the Western Carpathians - segmentation and origin of oblique-slip mobile zones occur due to completion of the Alpine - Carpathian mountain chain arc structure. The compression maximum in this stage of overthrust of nappes corresponds, at the same time to the period of maximum extension in the backland of the forming part of the mountain chain /outer units of the Western Carpathians/.

In the Middle Miocene compression tectonic is gradually being completed in the outer units of the Western Carpathians. This results in a gradual disintegration of the foredeep /in the CSSR after the Early Badenian, in Poland in the Sarmatian/. Sedimentation areas of the foredeep are controlled by longitudinal tectonics and a transversal one which is especially active in the eastern part of the Western Carpathian segment. In the region of the mountain chain /present day inner basins of the Western Carpathians/ sedimentation takes place in the basins bound to oblique-slip mobile zones. The development /maximum sedimentation rate in the East Slovakian Basin/ of the latter is caused by stress at the block's junction and by release of tension in the block interiors of the Western Carpathian segment /origin of Neogene block structure of the Western Carpathians/. Under the influence of extension

tectonics in the backland of mountain chains completing their formation /after and during accretion of outer units to the inner ones/, graben/horst structures of dissected back-arc basins are formed. This period is also characterized in this area by strong volcanic activity - initially of acid, later of andesite volcanism.

Geodynamic development of the Western Carpathian segment in the Late Miocene - Pliocene is characterized by the end of compression in front of the mountain arc and the uplifting of a uniform mountain chain. Activation of transversal and longitudinal lines /NE - SW, NW - SE/ as well as formation of new ones /N - S/ results in the dissection of the mountain chain and, at the same time, adjoinment of some inner basins of the Western Carpathians to the central subsidence region in the Gabčíkovo Basin/Danube lowlands. The extension in the backdeep region of E - W orientation /maximum sedimentation rate/ is influenced by subcrustal thinning and, resulting from it, the thermal history of the "Intra-Carpathian region". Volcanic activity changes in the Pontian from acid and andesite volcanism to basalt volcanism.

## REPORT OF THE WORKING GROUP ON THE PARATETHYS.

## Part 1: WESTERN AND CENTRAL PARATETHYS

by I. Cicha

Since the last meeting of the Paratethys group at the RCMNS congress in Athens, 1979, the activity of the participants from Austria, CSSR, Bulgaria, Germany, Hungary, Poland, and Yugoslavia has been focused on problems connected with stratigraphic, paleogeographic and geodynamic evolution.

Origin and evolution of the Alpine and Carpathian foredeeps were studied in relation to nappe movements, especially in the Carpathians /Cicha; Krystek/. The obliteration of the Tethys and inception of the Paratethys is linked with the ending Savic movements. Generally it may be stated that among the typical Flysch complexes and the Molasse s. str. lies a complex with bituminous clays containing the so-called Menilite cherts. This formation exhibits neither flysch nor molasse characters in their typical form; however, it should be emphasized that in some sites its upper part is substituted by the Krosno - facies which in its typical form displays distinctly flysch sedimentation. The beginning of the anoxic regime marks the very first explicit signs of isolation of the Tethys and the Paratethys, but it does not yet unambiguously signalize the beginning of the separate development of the Paratethys basin. It is only a transitory development stage in the progressing disintegration of the Tethys, climaxing on the Eggenburgian - Egerian contact and consequently triggering the origin of the separate sedimentary basin of the Paratethys.

The molasse sedimentation s. str. in the Pre-Alpine and Pre-Carpathian space can be considered as beginning from

the Late Egerian. The Molasse s. str. as a space situated in front of the Flysch nappes probably does not originate earlier than the Eggenburgian.

The correlation of regional stages of the Paratethys and Boreal regions /Cicha, Daniels, Spiegler/ was investigated under the IGCP Proj. no. 124 and in the framework of the genus *Orbulina*. The following conclusions can be drawn:

The occurrence of the *Uvigerina hantkeni* s. l. species is common for both regions and characterizes the Kiscellian of Central Europe and the Rupelian s. l. /incl. the Latdorfian of the Boreal region/. The similarity of *Uvigerina posthantkeni* and *U. hemmooriensis* permits correlation of the Eggenburgian and earlier Hemmoorian /Behrendorf sub-stage/.

A fundamental paleogeographic change and a vast marine transgression in the Karpatian of the Paratethys and in the Early Reinbekian of the Boreal region occurs during the Neogene. Joint occurrences of the *Uvigerina accuminata* group is typical for this period. The first occurrence of *Uvigerina macrocarinata* is associated with the Early Badenian and Middle Reinbekian in both regions. *Uvigerina pudica* is a typical species of the Paratethys region, restricted to the Middle Badenian. It is similar to *U. semiornata kusteri* which is the key species of the Late Reinbekian. *Uvigerina brunnensis* also occurs both in the Wielician and Late Reinbekian of the compared regions. The Late Badenian and the lower part of the Langenfeldian can also be correlated on the basis of the common occurrence of the *U. pygmaea* group. According to the above results the first occurrence of *Orbulina bilobata* in the Late Reinbekian can not be considered isochronous with the first occurrence of this

species in the Paratethys region.

Various aspects of the Early Miocene, Egerian up to the Ottnangian of the Carpathian foredeep were minutely evaluated /Čtyroky; Cicha; Brzobohaty/. The basin as well as shallow water developments of the marine and continental region were discussed. A determination of the boundary between the Eggenburgian and Ottnangian was based on lithological differences since key faunas and floras were predominantly absent. Associations of the Eggenburgian - Eggenburgian/Ottnangian - Ottnangian can be unambiguously differentiated. The extent of the Eggenburgian in the Carpathian foredeep, in the Upper Silesian region /Carpathian foredeep in Moravia and Poland/ was determined with a greater precision.

Paleobotanical and paleotectonic maps on scale of 1 : 500 000 through 1 : 1 500 000 from the Egerian up to Pliocene time were constructed /Kojumdgieva; Popov/, partly in collaboration with RDP Project /Hámor, Vass Gasparik, Kovač, Cicha, Krystek/. Major attention was given to the problems of molasses in the region of basins adjacent to the Carpathian arc and to molasse differentiation.

Results of more recent paleobotanical research in fresh-water Tertiary sediments in the Bohemian Massif permitted more accurate determination of their stratigraphic correlation /Bužek; Kvaček/. Volcanic material in Tertiary basins of northern Bohemia correspond to the Egerian. Sediments of the North Bohemian basins with the Main Seam and overlying clays represent the Late Egerian to the beginning of the Ottnangian /including the Lom Seam/. The coal formation of the Sokolov Basin, the main seam of the Cheb Basin and the Cypris formation, extending in both basins can be stratigraphically correlated with the Late Ottnan-

gian to Karpatian. The upper seam formation of the Hradec part of the Žitava Basin also corresponds to the Ottnangian. The flora of the Vildstejn formation of the Cheb Basin is correlated to the Reuver C up to the Pretigel in the Boreal region, and with the Romanian in the Paratethys. The Zliv formation in the South Bohemian basins can be correlated approximately with the Karpatian, the Mydlovary formation containing a Mastixoidea-flora with the Early to Middle Badenian. The Ledenice formation probably corresponds to the Brunssumian in the Netherlands and to the Dacian in the Paratethys.

The description of the regional stage of the Pannonian was terminated in the framework of the edition "Chronostratigraphie und Neostratotypen". The evaluation of the Pontian in the Central Paratethys is in progress.

An evaluation of diatoms and biostratigraphic research on diatomaceous sediments of the Oligocene and Early Miocene as well as the definition of new zones for the Central Paratethys was completed by Řeháková.

Type sections of the Ottnangian /in the North Hungarian Basin/ were assessed /Hamor et al./. Assumptions of the occurrence of specimens of the Rzehakia association in the earliest Karpatian were corroborated. Hamor performed a chronostratigraphical revision of the Neogene orogenic cycles in the region of the Pannonian Basin s. l.

In the Dacian Basin /Bulgaria/ key section of the Neogene were processed /Kojumdžieva, Stancheva, Dikova/. Stancheva conducted a zonal differentiation from the Sarmatian up to the Dacian on the basis of ostracodes. The regional stage Karaganian was subdivided in Bulgaria into 3 substages:

Arkhashenian, Varnenian, Kartvelian /Kojumdgieva; Popov/, based on molluscan zones. The continental Neogene of southern Bulgaria was studied and relations between the Aegean region and the Paratethys were observed /Kojumdgieva; Nikolov; Mein/. The sediments of the Maeotian, Pontian and Pliocene were examined.

## REPORT OF THE WORKING GROUP ON THE PARATETHYS.

## Part 2: EASTERN PARATETHYS

by L. A. Nevesskaya and M. F. Nosovsky

Since the 7th RCMNS congress in Athens, the following results have been obtained in the Neogene of the Eastern Paratethys:

1. A special volume on the marine and continental Neogene from the entire territory of the USSR is in press;
2. An unified stratigraphical scheme of the Neogene was prepared by the stratigraphical commission of the USSR;
3. The Caucasian regional stage was defined as the lowermost stage of the Neogene system and compares with the Aquitanian;
4. According to nannoplankton investigations from Late Miocene and Pliocene sections in the region of the Black Sea and Caspian Sea, a direct correlation is possible between the Eastern Paratethys and the Mediterranean and also with the zonation of ocean basins. A new stratigraphic correlation scheme is proposed based on these results. The Miocene - Pliocene boundary must be on top of the Pontian stage;
5. The extent and stratigraphic position of the Tarkhanian regional stage was determined by means of the nannoplankton as nannoplankton zone NN 4. The lower part of the Tarkhanian correlates with the upper part of the Ottnangian, the upper part of the Tarkhanian with the Karpatian of the Central Paratethys.

ОСНОВНЫЕ ИТОГИ СОВЕТСКОЙ РАБОЧЕЙ ГРУППЫ "ПАРАТЕТИС"  
 В ПЕРИОД МЕЖДУ УП и УШ КОНГРЕССАМИ РЕГИОНАЛЬНОГО  
 КОМИТЕТА ПО СРЕДИЗЕМНОМОРСКОМУ НЕОГЕНУ  
 /1979-1981 гг./

В течение пяти лет, прошедших после УП конгресса РСМНС /1979 г./ по неогену Восточного Паратетиса, получены следующие результаты:

1. Советскими учеными завершена подготовка и передан в печать том по неогену СССР, объемом 90 п.л., содержащий обобщенные материалы по морским и континентальным отложениям неогена СССР, развитых на всей его территории.

2. Разработана и утверждена Межведомственным стратиграфическим комитетом СССР унифицированная стратиграфическая схема, принятая в томе "неоген СССР".

3. На основе имеющихся фактических данных Межведомственный стратиграфический комитет СССР принял для юга СССР кавказский ярус как самое нижнее подразделение неогеновой системы, изохронное с основанием аквитанского яруса.

4. На основе наннопланктона, впервые обнаруженного по разрезам верхнего миоцена-плиоцена Эвксино-Каспийской области и сопоставления данных по наннопланктону с палеомагнитными датировками, проведена прямая корреляция миоплиоцена Восточного Паратетиса с разрезами Средиземноморья и океанических бассейнов.

На этой основе предложена новая схема стратиграфической корреляции региоярусов верхнего миоцена и плиоцена Восточного Паратетиса и Тетиса.

Границу миоцена и плиоцена в Восточном Паратетисе следует принять по кровле понтического яруса.

5. Уточнен объем и положение тарханского региояруса на основе обнаруженного наннопланктона зоны ПМ 4. Нижняя часть тархана коррелируется с верхней частью оттангия, а более высокая часть тархана с карпатием центрального Паратетиса.

EPOCHS		PARATETHYS				MEDITERRANEAN	
		EASTERN		WESTERN			
		CYCLES	Euxinian Basin	Caspian Basin			Pannonian Basin
NEOGENE	PLIOCENE	VI	TSHAUDINIAN GURIAN	APSHERONIAN	Continental Formations	CALABRIAN	
			KUYALINIAN	AKCHAGYLIAN		PIACENCIAN	
			KIMMERIAN	BALAKHANIAN		ZANCLEAN	
			BOSPHORIAN PORTAFERRIAN		PORTAFERRIAN		
	MIOCENE	Late	V	EARLY PONTIAN		E. PONTIAN	MESSINIAN
				MAEOTIAN	PANNONIAN	TORTONIAN	
	MIOCENE	Middle	IV	SARMATIAN	SARMATIAN s.str.	BADENIAN	SERRAVALLIAN
				KONKIAN			
			III	TSHOKRAKIAN		LANGHIAN	
	OLIGOCENE	Early	II	TARKHANIAN	KARPATIAN	OTTNANGIAN	BURDI- GALIAN
				MAIKOPIAN			
		KOZAKHURIAN			EGERIEN	AQUITANIAN	
		SAKARAULIAN					
		CAUCASIAN					
	PALAEOGENE	Late	I	ROSHNIANIAN		KISCELLIAN	STAMPIAN
SOLENOVIAN							
PSHEKHIAN							

Correlation of the Neogene stages of the Eastern Paratethys with the Central Paratethys and Mediterranean

/Neveeskaya L.A. et al. 1984, fig.2./



P A R T 2

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by

Fred Rögl



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3.2. Endemic Paratethys Fauna and Flora

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9. GEOCHEMISTRY - STABLE ISOTOPES

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12. PALEOECOLOGY AND CLIMATE

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13. ENERGY AND MINERAL RESOURCES

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