1. TITLE OF CONSTITUENT BODY and NAME OF REPORTER
Subcommission on Cretaceous Stratigraphy (SCS)
Maria Rose Petrizzo, Chair; Michael Wagreich and James Haggart, Vice-chairs; Francesca Falzoni, Secretary
22 November, 2018

2. OVERALL OBJECTIVES AND FIT WITHIN IUGS SCIENCE POLICY
• To establish a standard global stratigraphic subdivision and nomenclature for the Cretaceous, as part of the ICS standard
global stratigraphic scale.
• To produce a stratigraphic table displaying agreed subdivision to stage and substage level, marking boundaries that are
defined by a GSSP.

3. ORGANISATION - interface with other international projects / groups
SCS has always been linked to important international Projects such as IODP, IGCP, Mesozoic Planktonic Foraminiferal
Working Group, and ICDP (International Continental Scientific Drilling Project).
3a. Nominated Officers for 2016-2020:
Chair: Maria Rose Petrizzo; Vice-Chairs: Michael Wagreich and James Haggart; Secretary: Francesca Falzoni.
Voting Members are 19, from most continents. Over 150 Cretaceous scientists from all over the world and in many
different disciplines belong to one or more of the Stage Working Groups and to the Kilian Group. The Stage Working
Groups of the SCS are: Berriasian, Valanginian, Hauterivian, Barremian, Aptian, Coniacian and Campanian. All WG
leaders (chairs) and members are treated as Corresponding Members of the SCS.

4. EXTENT OF NATIONAL/REGIONAL/GLOBAL SUPPORT FROM SOURCES OTHER THAN IUGS
The SCS has strong links with IGCP projects.
• IGCP 608 Asia-Pacific Cretaceous Ecosystems (leader: Ando). Proceedings of this project will be published in “Island
Arc”. (2018 on-extended terms)
• IGCP 609 Climate-environmental deteriorations during greenhouse phases: causes and consequences of short-term sea-
level change. (2018 on-extended terms) Publications arising from IGCP 609 in 2018: Türk E. et al. (2018), Palaeoworld,
of this project will be published as Special Publication volume of the Geological Society London.
• IGCP 632 Continental Crises of the Jurassic: Major Extinction Events and Environmental Changes within Lacustrine
Ecosystems (leader: J. Sha). Subproject Late Mesozoic lacustrine systems in Tunisia and their global correlation (leader:
B. Sames).
• IGCP proposal submitted to IUGS titled: Linkage of Cretaceous solid earth dynamics, greenhouse climate, and response
of ecosystems on lands and in the oceans in Asia (leaders: Lee and Hasegawa).
Funds to the Coniacian WG: Grant from the German Science Foundation to C. Ifrim for further works on the El Rosario
section, (NE Mexico), a potential candidate for the base of the Coniacian Stage. Funding from the Polish National Science
Centre (N CN) to I. Walaszczyk to support works in Salzgitter-Salder, Cauvery Basin, SE India, and in Japan. Internal
grant of the Faculty of Geology of the University of Warsaw to I. Walaszczyk.

5. CHIEF ACCOMPLISHMENTS IN 2018
• WORKING GROUPS ACTIVITIES TOWARDS THE DEFINITION OF THE GSSPs
Chairs and updated memberships of each WG are available at http://cretaceous.stratigraphy.org/working-groups/.
Memberships are continuously updated by inviting active scientists that are willing to collaborate to the WG activities.
Campanian GSSP
Members of the WG visited the Bottaccione section (possible GSSP candidate) in May 2018 to refine the log and
photograph the S/C boundary. Further sampling for magnetostratigraphy and biostratigraphy was undertaken in
September 2018 by G. Muttoni, R. Coccioni and others. Results of these studies will be available in early 2019.
Potential GSSP/regional reference sections across the Santonian/Campanian boundary will be studied through a Canada-
Japan joint research on Vancouver Island (Hasegawa and Haggart). Haggart and Graham described a new occurrence of
the crinoid Marsupites from the Upper Cretaceous strata of the Nanaimo Group of Vancouver Island, British Columbia.
It is the first occurrence of Marsupites in the North Pacific Province and provides an important link with the uppermost
Santonian of the European standard stage succession. Other (reference) sections from Tethyan areas including member(s)
of the WG are from Austria (Wolfring et al., 2018a), Tunisia (Farouk et al., 2018) and Turkey (Wolfring et al., 2018b).
Coniacian GSSP
The WG re-sampled the Salzgitter-Salder section for foraminifera (D. Peryt and Z. Dubicka), dinoflagellate (I. Jarvis and
others), calcareous nannofossil and carbon-isotope (S. Voigt and others) studies. Preliminary results of the foraminiferal studies were presented by Peryt and Dubicka at Forams 2018, manuscript in preparation. The dinoflagellate analysis is in progress. Dinoflagellate analysis of the Turonian-Coniacian boundary succession of the Folwark quarry (SW Poland) has been completed; the results were presented during the 19th Czech-Slovak-Polish Palaeontological Conference & 11th MIKRO 2018 Workshop in Prague, October, 2018, manuscript in preparation. The WG worked on the Turonian-Coniacian succession of the Cauvery Basin, SE India, paper ready for submission.

Walaszczyk et al. (2018). The inoceramids and ammonites from the topmost Turonian-lower Coniacian (Upper Cretaceous) of the Anapadý-Saradamangalam region, Cauvery Basin, SE India. To be submitted to Acta Geologica Polonica.

**Albian GSSP**

Officers of the SCS contacted the local authorities of the Commune of Armayon (Département de Drôme) on the official steps to follow for the establishment of a geopark for the protection of the site.

**Aptian GSSP**

The publication below served as starting point for a discussion within the WG on the proposed GSSP’s and on the open questions related to the selection of a GSSP. The proposed chemostratigraphic correlation between Gorgo a Cerbara and the French sections remains problematic. This indicates that there are still problems related to biostratigraphy and chemostratigraphy. The chairs of this WG concluded that the problems have to be discussed during a workshop planned for STRATI 2019.


**Barremian GSSP**

The formal proposal for the Barremian GSSP at Rio Argos (Spain) is in preparation and will be presented to the members of the WG in early 2019.


**Hauterivian GSSP**

A formal proposal of a GSSP site (La Charce, SE France) has been compiled throughout the first half of 2018 by Mutterlose and Reboulet and includes data on biostratigraphy (ammonites, calcareous nannofossils), stable isotope stratigraphy, organic matter and cyclostratigraphy. It is currently in its final internal review phase with Rawson and will be sent out to the members of the WG by early 2019. The protection of the La Charce site is ensured by an Espace Naturel Sensible (ENS) considering the major geological interest of the site. The department and the municipality of La Charce cooperated and established an exceptional and world-renowned geological interpretation circuit for the public.

**Valanginian GSSP**

The WG has carried out a new, denser sampling of one of the GSSP candidate sections (Cañada Luenga, SE Spain) for chemostratigraphic analysis to better constrain some biostratigraphic (ammonite, calcareous nannofossils and calcionellids) events.


**Berriasian (J/K boundary) GSSP**

In May 2018 the WG held a workshop at Kroměříž (Czech Republic) to discuss the compilation of a shortlist of sites for consideration as GSSPs. Fiune Bosso and the Vocontian Trough sites were judged to be the best candidates; question marks remain over the localities of Puerto Escano and Kurovice. The complete report of the meeting is available at [http://cretaceous.stratigraphy.org/meeting-berriasian-wg/](http://cretaceous.stratigraphy.org/meeting-berriasian-wg/).

**KILIAN Group**

Results of the 6th meeting of the IUGS Lower Cretaceous Ammonite Working Group (the Kilian Group) (20 August 2017 Vienna, Austria) are now published. The Vienna meeting mainly dealt with the West Mediterranean zonation (standard zonation) and its calibration with the Boreal, Austral and Central Atlantic realms. Josep Moreno-Bedmar has been elected as vice-chair.


**ADDITIONAL ACTIVITIES**

- 17-23 September 2018, IX All-Russian meeting “The Cretaceous System of Russia and neighbouring countries: problems of stratigraphy and paleogeography” was held in Belgorod, dedicated to the 140th anniversary of the birth of academician A.D. Arkhangelsky.
• Fieldwork in Crimea focused on the J/K, K2cp/m, K2st/cp boundaries (Saratov University, Moscow State University, Geological Institution, Moscow).
• Project on Aptian at the Rio de Janeiro Federal University supported by Shell, titled "Stratigraphic correlation, paleoenvironmental and paleogeographic evolution, and exploratory perspectives of the Alagoas Stage" in the sedimentary basins of Parnaiba and Araripe, (Northeastern Brazil). It is a long-term project (54 months) involving Regional Geology, Geophysics, Paleontology, Sedimentology, Stratigraphy and Geochemistry. The studied interval corresponds to the "Pre-salt", which contains the largest oil reserves in the Brazilian continental margin.
• The standard Upper Cretaceous Zonal Schemes of the Eastern European Platform Based on Foraminifera, Radiolaria, and Nannoplankton have been proposed by some members. Vishnevskaya et al. (2018). Moscow University Geology Bulletin, 73(2):131–140.

6. SUMMARY OF EXPENDITURE IN 2018:
Contribution towards cost of maintenance of the website 200 Euro
Contribution to support the meeting of the Campanian WG at Bottaccione (May 2018) 333.70 Euro
Contribution to support the sampling of the Bottaccione section (September 2018) 336.82 Euro
Contribution for secretarial work 200 Euro
TOTAL expenditure in 2018 = 1070.52 Euro

Budget surplus to carry forward to support Subcommission members to attend STRATI 2019 = 1485.48 Euro

7. SUMMARY OF INCOME IN 2018:
ICS Subvention for 2018 DKK 19300.00 = 2556 Euro

8. BUDGET REQUESTED FROM ICS IN 2019
Contribution towards cost of website maintenance 400 Euro
Contribution to fieldworks/working group activities (all Stage WGs) 1000 Euro
Contribution for secretarial work 400 Euro
Contribution to support Subcommission members to attend STRATI 2019 1700 Euro
TOTAL budget request from ICS in 2019= 3500 Euro

Carried forward to be used for STRATI 2019 = 1485.48 Euro
TOTAL estimated expenditure in 2019 = 4985.48 Euro

9. WORK PLAN, CRITICAL MILESTONES, ANTICIPATED RESULTS AND COMMUNICATIONS TO BE ACHIEVED NEXT YEAR (2019):

• STUDIES, FIELD WORK TO FINALIZE THE GSSP PROPOSALS
Campanian GSSP
R estudy of the Bottaccione section will be completed by early 2019. If results support the candidature of the Bottaccione section, the GSSP proposal will be completed by the end of 2019.
Coniacian GSSP
The planned WG activities include: finishing foraminiferal and dinoflagellate analyses from the Salzgitter-Salder section and publication of the results, finishing isotope analysis of the El Rosario section and publication of the results, field work on the Turonian-Coniacian succession in selected sections in Hokkaido, publication of the discussion on the Turonian/Coniacian boundary in Japan, presentation of the results during the STRATI 2019 meeting (Milano, July 2019), final discussion within the WG and preparation of the ultimate proposal on the basal Coniacian stratotype.
Albian GSSP
Finalization of the official steps required for the protection and easy accessibility of the GSSP site.
Aptian GSSP
WG members will meet in a workshop during the STRATI 2019 congress in order to clarify open questions related to the
definition of the Aptian GSSP. In preparation of the workshop, the chairs are compiling an updated framework of stratigraphies across the Barremian/Aptian boundary to provide an integrated framework as the basis of discussions and critical selection. Records from low and high latitudes and from pelagic and neritic settings will be also compared.

**Barremian GSSP**
The formal proposal of the Barremian GSSP at Rio Argos (Spain) will be presented to the members of the WG in the first months of 2019. If approved, it will be submitted to the Subcommission.

**Hauterivian GSSP**
The WG aims at finalising the voting procedure on La Charce in 2019. Depending on the outcome of the vote, a publication of the relevant data supporting La Charce as the candidate GSSP section is planned.

**Valanginian GSSP**
Field work is planned for 2019 in order to examine the other candidate stratotype section (Vergol, SE France) and select the best GSSP candidate section to be voted within the WG members.

**Berriasian (J/K boundary) GSSP**

**Kilian Group**
The Kilian meetings are usually held every 3 years (2002; 2005; 2008; 2010; 2013; 2017). The next meeting will be associated with the next Cretaceous Symposium (Poland, 2021). The local organization will be made by Izabela Ploch. The upper Aptian, lower-middle Albian zonal schemes will be in focus at the forthcoming meeting.

**ADDITIONAL ACTIVITIES**
Publication of the results of the integrated study of J/K boundary interval and K2cp/m from Caucasus, Central Caspian regions and Russian Platform.
Preparation of the data on auxiliary sections on the Cretaceous Stage boundaries from Russia.

**FUTURE MEETINGS**
-JK2018 (5-7 Dec. 2018, Geneve, Switzerland). The aim of the "International Meeting AROUND the Jurassic-Cretaceous Boundary" is to discuss eustatical, biological, physiographical, geochemical, tectonic, ... events at/near the boundary (i.e., over an interval of time spanning the Kimmeridgian to the Hauterivian, with a special focus on the Tithonian-Valanginian strata). Selected papers from the meeting will be published in *Volumina Jurassica* and in *Cretaceous Research*. There will also be possibilities to submit some manuscripts to *Revue de Paléobiologie* and *Carnets de Geologie*.
-STRATI 2019 3rd International Congress on Stratigraphy (Milan, Italy, 2-5 July 2019; webpage [http://www.strati2019.it/index.php](http://www.strati2019.it/index.php)). The SCS officers submitted a proposal for a scientific session titled “Cretaceous integrated stratigraphy, greenhouse climate change and events” and it is intended to host presentations and discussions on Cretaceous topics including progresses on GSSP studies and status of GSSP proposals.
-2019 May. Post-cruise meeting/presentation of IODP Expedition 369 in Kanazawa Japan. Cretaceous stratigraphy and its stage boundaries from high latitude Indian Ocean will be a primary target of the meeting.
-2020 September, the X All-Russian meeting “The Cretaceous System of Russia and neighbouring countries: problems of stratigraphy and paleogeography” is planned in Magadan City.

**Potential funding sources external to IUGS**
The SCS does not envisage being able, as an organization, to obtain significant funding from outside IUGS/ICS sources. Some financial support could be obtained by individual members from their host institutions and/or their personal research funds. In December 2018, I. Walaszczyk (Chair of the Coniacian WG) will submit a grant application to the Polish National Grant Commission (NCN) aimed to finalise the Turonian/Coniacian boundary.

**10. KEY OBJECTIVES AND WORK PLAN FOR THE PERIOD 2016-2020**

- **2019-2020**: Inauguration of the Albian GSSP.
- **2019-2020**: Submission of the proposals for the GSSP candidate sections approved by the Working Groups to the Cretaceous Subcommission Voting Members.
- **2019-2021**: Continue to work and preparation of proposals for the definition of substages for discussions at the forthcoming meetings: 36th International Geological Congress (Delhi, India, 2-8 March 2020); 11th International Symposium on the Cretaceous (Poland, 2021).
APPENDIX [Names and Addresses of Current Officers and Voting Members]

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