

News at a Glance

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1. News from the International Commission on Stratigraphy

Ratification of Artinskian Stage GSSP and New version of the International Chronostratigraphic Chart published

The proposal received from the International Subcommittee on Permian Stratigraphy (ISPS: <https://permian.stratigraphy.org/>) for the definition of Artinskian Stage GSSP has been ratified by the IUGS Executive on 27 January 2022. To know more click the link below: <https://stratigraphy.org/news/138>



Fig. 1. The Dal'ny Tulkas section; GSSP for the base of the Artinskian Stage is 3.5 m below the top of bed 5 (boundary indicated by the red arrow). Photography courtesy of Lucia Angiolini.



The latest version of the International Chronostratigraphic Chart (2022/02) was published on on the International Commission on Stratigraphy (ICS). The chart (Fig.2) can be downloaded from the ICS' website: <https://stratigraphy.org/chart>. The chart is available to all for educational and research purposes without charge. Enquiries concerning the use of the charge for commercial applications should checked on the ICS website.

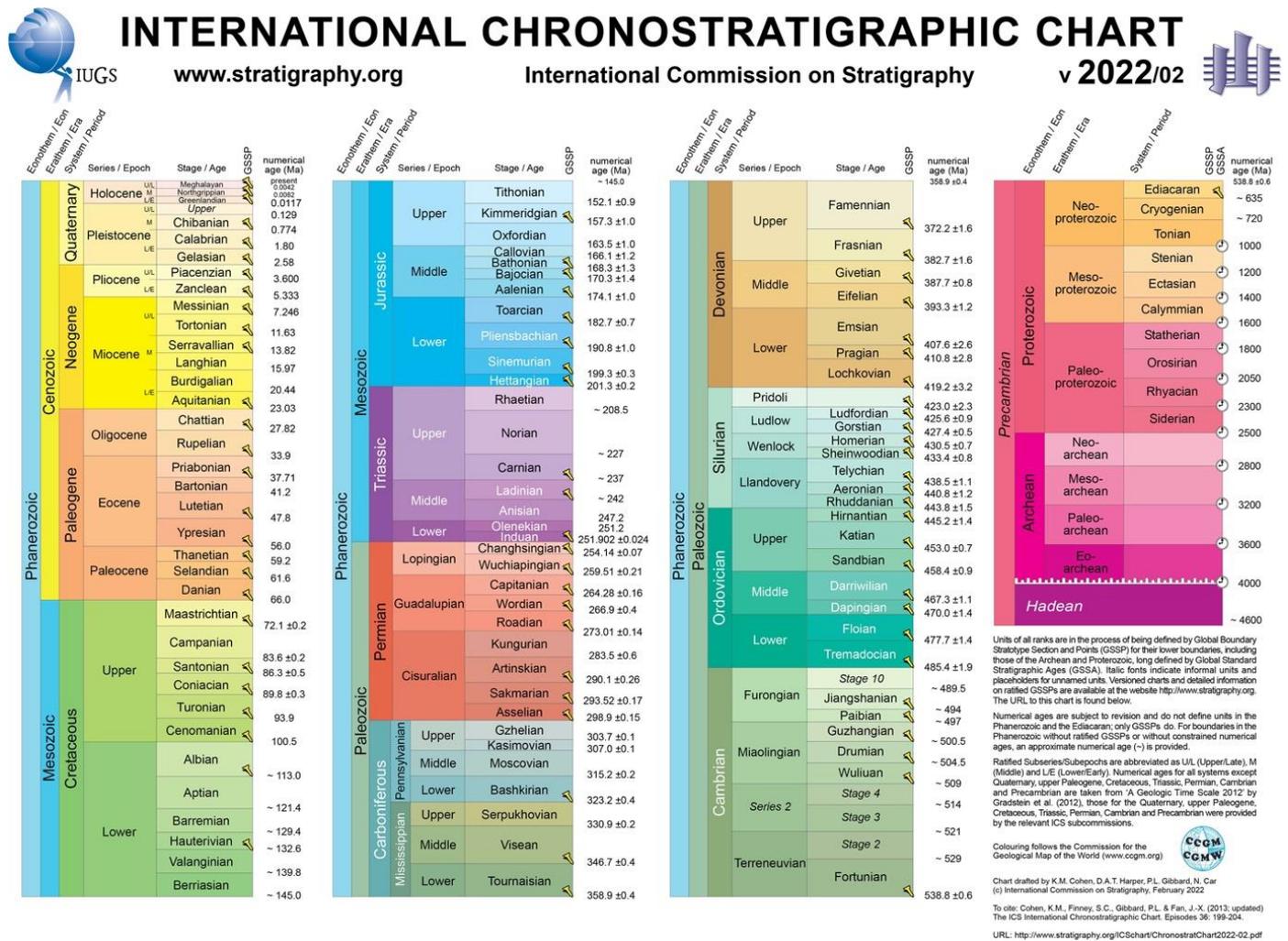


Fig. 2. The ICS International Chronostratigraphic Chart, version 2022.

2. IUGS Episodes

March issue of Episodes (Vol. 45, No.1) has been published and uploaded at Homepage (<https://www.episodes.org/main.html>). This issue carries 1 editorial, 6 articles, 1 Review, 1 Communication of IUGS Geological Standards, 1 Report, and Obituary.

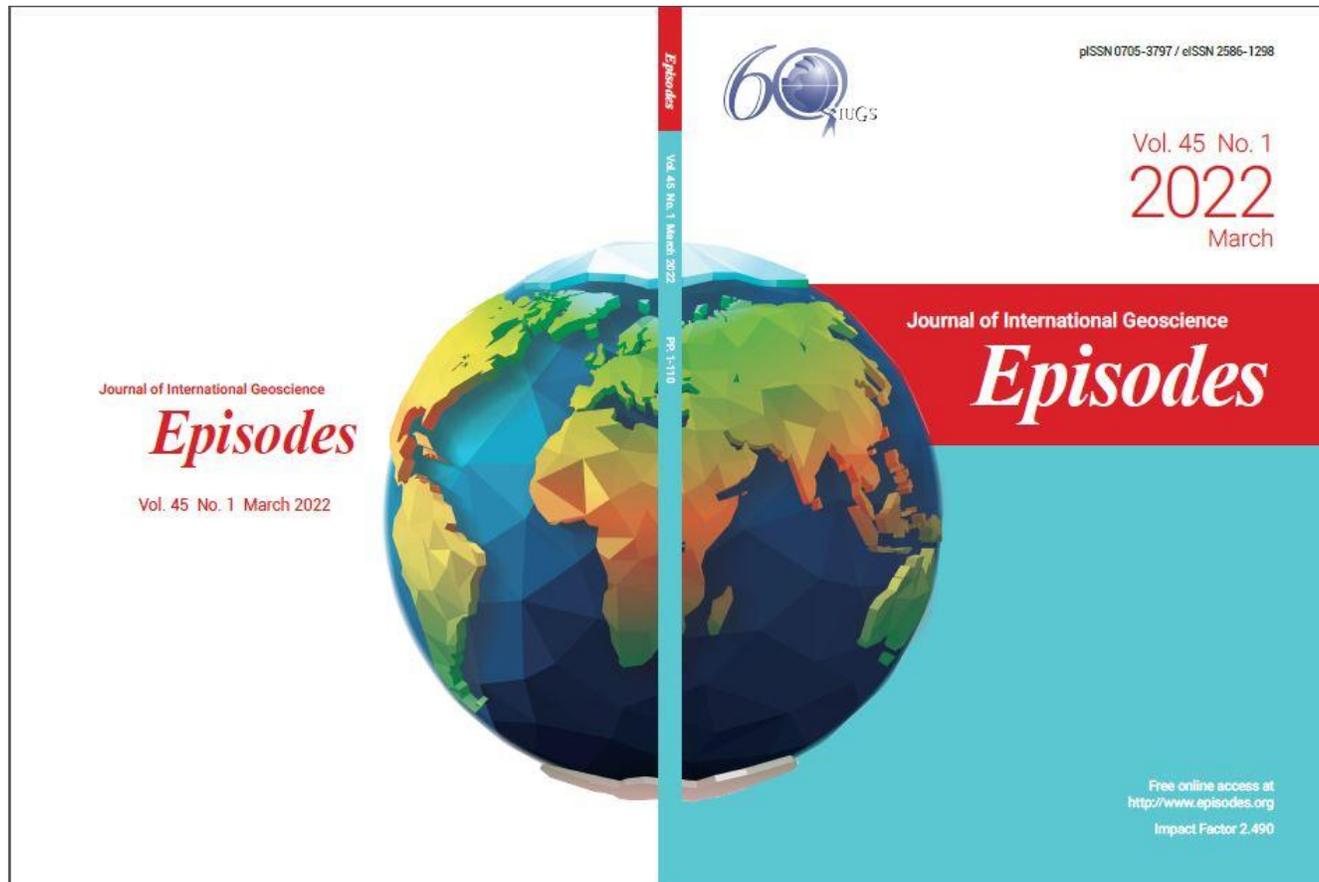


Fig. 3. Cover page of Episodes

3. News from IUGS-COGE/IGEO

Your country needs a good geoscience textbook – so what can you do?

You can develop a geoscience textbook for your own country, region, state or even city. We showed this in developing *Exploring geoscience across the globe - England*. To do this, just take the international version of the textbook (that you can see at: <http://www.igeoscied.org/teaching-resources/geoscience-text-books/>), replace some of the photos with photos from your own region, add some geoscience ‘interest boxes’ for your region, and you have developed a new, IUGS-approved, textbook for teachers and students in your own country. Our work has shown that this takes around 200 hours for one person or a week’s work each for five people. Translation into your own language takes only about another 200 more hours – as shown by our Turkish translation.

Please join our team of writers. Between us we can help to educate the world in geoscience.

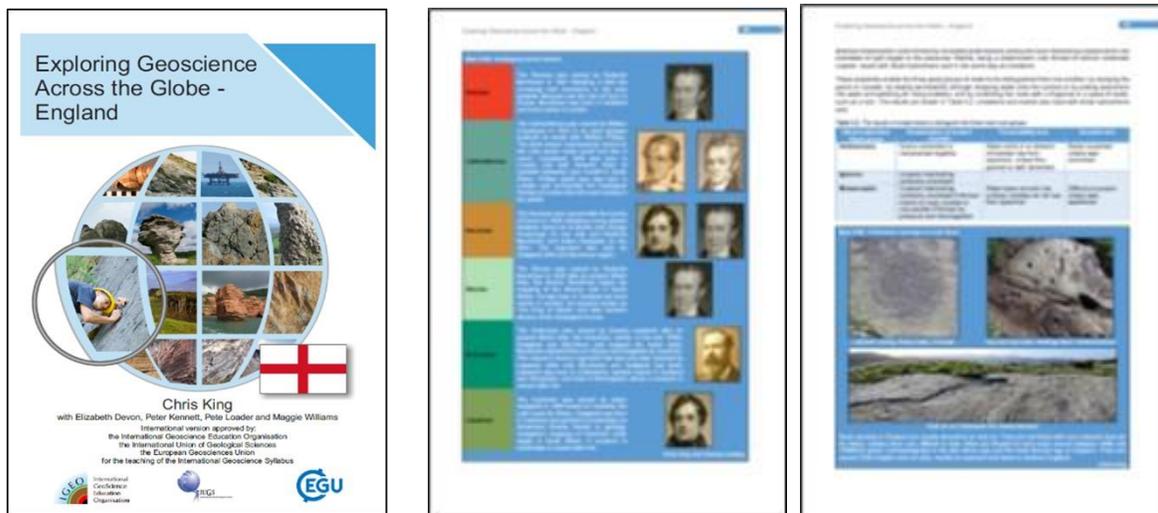


Fig. 4. Cover and some inside pages of *Exploring geoscience across the globe – England*.

If you can find a small group of people committed to spending 200 (or 400) hours in preparing a geoscience textbook for your own region, please contact Tanja Reinhardt at Reinhardt2@ukzn.ac.za for more details and a 'Word' version of the textbook, ready for adaptation. We will be happy to add a customised cover and unique ISBN number and publish it on the International Geoscience Education Organisation (IGEO) website.

By working together and harnessing volunteer power, we can all help to educate the world for geoscience!

4. News from the IUGS Initiative on Forensic Geology (IFG)

Women in Forensic Geology

IUGS-IFG has a project to encourage and support 'women in forensic geology' and has appointed an 'Officer for Women in Forensic Geology'. Additionally, IUGS supported the UN International Day of Women and Girls in Science.

<https://iugs60.org/iugs-women-in-geoscience-event>.

BERGSLET@buffalostate.edu

Forensic Geology and the Ibero-American Network of Forensic Researchers: Search for Missing Persons

The Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo, (CYTED), (American Program of Science and Technology for Development) was approved for the period 2022-2025, for the Ibero-American Network of Forensic Researchers. This has a particular focus on the search for missing persons.

<https://geoforenses.com/riif/>

Geoforensic International Network (GIN)

GIN brings together forensic geologists, geoscientists, police and law enforcement officers from around the world to develop and promote forensic geology. New members of GIN were approved for Greece and Nigeria

<https://www.qub.ac.uk/sites/iugs/>

<https://www.qub.ac.uk/sites/iugs/Contacts/>

5th Iberoamerican Seminar on Forensic Geosciences, Bogota, Colombia

The Iberoamerican Seminar on Forensic Geosciences has been agreed to take place in Bogota, Colombia at a date to be confirmed later in 2022. For 13 years IUGS-IFG has collaborated to organise past events in Colombia, Brazil, Argentina and Mexico.

IUGS-IFG Student Newsletter

The IUGS-IFG student newsletter for February 2022 can be found on the link below.

<https://geoforenses.com>

The South African Revenue Service (SARS), illegal gold and fraud

A SARS investigation has uncovered an alleged fraud scheme based on illicit gold exports, including the underworld of Krugerrands, scrap jewellery and illegal mining. The amount of gold involved was allegedly more than 200 tons over a decade.

<https://www.news24.com/fin24/companies/gold-scam-robs-sa-of-billions-says-sars-20220203>

XXVI National Criminalistics Congress 17 May 2022

The National Congress of Criminalistics (CNC) will celebrate the XXVI edition, simultaneously with the IX International Congress of Forensic Experts and the XXVI Exhibition of Technologies Applied to Criminalistics. The CNC is event of the Brazilian Criminalistics Association (ABC), held every two years.

<https://geoforenses.com/#calendario>

<https://app.virtualieventos.com.br/criminalistica2022/info>

Forensic Geology: Applications to Biodiversity, Geo-conservation, Illegal Exploration and Mining

The applications of forensic geology includes illegal mineral exploration, exploitation of mineral resources, and associated environmental degradation, which can have a negative impact on a nation's economy.

<https://geoforenses.com/2022/02/as-geociencias-forenses-e-a-geoconservacao/>

Forensic Geology, Forensic Gemology: Gemstones and Art

Techniques and methods in forensic geology are used to investigate fraudulent and fake gemstones and works of art.

<https://geoforenses.com/2022/02/gemas-metals-preciosos-e-obras-de-arte-a-relacao-entre-o-belo-e-o-forense/>

<https://www.showmetech.com.br/obras-de-arte-entenda-como-as-copias-sao-identificados/>

<http://cbg2018anais.siteoficial.ws/resumos/4539.pdf>

<https://ambitojuridico.com.br/edicoes/revista-29/gemologia-forense/>

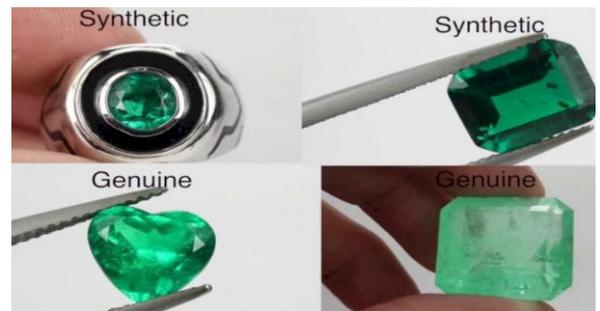


Figure 5. Real and fake emeralds (source: Taken from JC Esmeraldas Consultoria Online, jcesmeraldas.com.br)

5. News from INHIGEO Anniversaries

Author: Martin Rudwick

Title: WILLIAM BUCKLAND'S BONE CAVE (1822):

TIME-TRAVEL INTO EARTH'S DEEP HISTORY

Exactly two centuries ago, in February 1822, at three successive meetings of the Royal Society in London, a large audience of its Fellows and their guests listened to a major paper by William Buckland (1784-1856), describing how he had interpreted a small cave in rural Yorkshire. Buckland's analysis of the little cave at Kirkdale set an outstanding precedent. He used it to reconstruct not just a lot of extinct species but a whole ecosystem that belonged to a vanished 'former world'. His 'hyaena story', as he called it, gave geologists a newly effective model for thinking about the pre-human past; in effect, he constructed a conceptual time-machine that gave vivid and reliable access to the deep history of the Earth. To know more open, the link:

<http://www.inhigeo.com/anniversaries.html>

6. IUGS 60th Anniversary celebration Event










SEG-SGA Student Chapter Meeting

*Sustainable Mineral Resources Supply:
Challenges for Future Generations*



University of Geneva, Switzerland - September 13-16, 2022

The 2022 European SEG and SGA Student Chapter meeting is a unique opportunity for students and postdocs to present their research work during talks and poster sessions. It will allow us to address new research directions and to discuss challenges related to a sustainable supply of mineral resources, in particular in the frame of the energy transition towards a low carbon world.

The meeting from Sept 13th to 15th will be free of charge and it will include: 6 **keynote talks**, 2.5 days of **talks and posters by PhD-MSc students and post-docs**, and 1 **brainstorming afternoon** about sustainable mineral resources supply and challenges for future generations.

A post-meeting **short course on porphyry-epithermal systems** will be organized on Sept 16th. Registration is limited to 50 participants and at a cost of 30 Euros. Speakers are:
K. Kouzmanov & M. Chiaradia (Geneva), C. Chelle-Michou (Zurich), J. Wilkinson (London).

Themes at a glance (non-exhaustive):

Regional controls of ore formation; Ore deposits in metamorphic, magmatic-hydrothermal and sedimentary environments; Exploration of ore deposits; Environmental and Societal impacts of mining and exploration; Geometallurgy; New and cutting edge analytical tools applied to ore deposit research; Future demand and supply of metals etc.

Confirmed keynote speakers:

T. Baker (Eldorado Gold): Geochemical fertility, ore deposit models and geological mapping
R. Baumgartner (Teck Resources): Beyond conventional geometallurgy for a circular economy
K. Goodenough (BGS) Where will all the lithium for batteries come from?
D. Holwell (U. of Leicester) Porphyry fertility starts in the Goldilock's zone
E. Nickless (IUGS): Demand for mineral resources and sustainable development goals
O. Vidal (U. Grenoble-Alpes): The needs for raw materials and energy in a changing world

Abstract submission deadline: May 1st 2022 (300 words)

Information, program & registration: <https://smrs2022.com/>

Conference chairs:
Şafak Utku Sönmez, François Turlin, Ali Aluç & Robert Moritz
University of Geneva, Switzerland - info@smrs2022.com

Fig 6. IUGS sponsored event

7. News from IUGS TecTask

DRT 2023 - 23rd International Conference on Deformation Mechanisms, Rheology and Tectonics

The Deformation Mechanisms, Rheology and Tectonics (DRT) conference is a biennial international meeting that has been running for 45 years, organised and hosted by academic staff from different European universities. DRT is one of the main world forums for presenting and discussing research in the fields of rock deformation, structural geology, rheology, tectonics, microstructures, rock physics and interactions between deformation and metamorphic/diagenetic reactions. Since 2019, the DRT conference series are organised by the European Society for Deformation Mechanisms, Rheology and Tectonics (www.drt-society.org). The 23rd edition will be held in Catania (Sicily, Italy), from 4th to 10th July 2022, and run by the University of Catania. IUGS-TecTask also supports this conference series and actively participate in its organization. Sicily has been chosen for the conference as the island offers great opportunities for examining the interactions between tectonics, landscape, and stratigraphy. Days with talk and poster sessions will be combined with field excursions to promote discussion. The conference circular can be found in: https://drt-society.org/wp-content/uploads/2022/02/1st_circular_DRT2022_Catania.pdf

More info @:

DRT 2022 - <https://drt-society.org/catania-2021/>

TecTask - <http://www.tectask.org/>



Fig. 7. Spectacular folds in the evaporites in Sicily

8. News from IUGS-IGC: Virtual 36th IGC



**36TH INTERNATIONAL
GEOLOGICAL
CONGRESS
VIRTUAL •**

20-22 MARCH 2022

Geosciences: The Basic Science
for a Sustainable Future

To know more open: <https://36igc-virtual.in/>



For the IUGS website: A one-page concise text (up to about 500 words), if possible providing a web-link (e.g. to an IUGS activity website).

Each contribution to the IUGS e-Bulletin, website and/or social media should be marked as to which target medium or media it should be published in. Each contribution should be sent, at the same time, to the following addresses:

gurmeet28374@gmail.com (e-Bulletin Editor-in-Chief)
giuseppe.dicapua@ingv.it (Webmaster)
gurmeet28374@gmail.com (Social Media Manager)

Time Frame for submissions to the e-Bulletin:

1. IUGS sends a reminder to leaders of activities in the last week of each month;
2. Contributions should be provided by the 16th day of every month.
3. IUGS will evaluate all submitted items in terms of urgency and will allocate these to the next monthly issue or a later issue and will also check that these comply with IUGS policy for publications and ethics;
4. The IUGS Publications Committee Team will aim to compile monthly e-Bulletin by the 25th day of the month and send it to the IUGS Secretariat;
5. The IUGS Secretariat will dispatch the e-Bulletin to the IUGS Community on, or before, the last day of each month;

This time frame may vary due to public holidays that affect the e-Bulletin Team and IUGS Secretariat such as Christmas and Chinese New Year.

NOTES

- Please check the IUGS [Calendar of Events](#) for upcoming scientific meetings. If you require information on international conferences, meetings, etc. to be considered for inclusion in this Calendar please mail to: giuseppe.dicapua@ingv.it
- To be added to or removed from the IUGS e-Bulletin distribution list, please mail to: iugs.beijing@gmail.com or secretariat@iugs.org.
- Follow the IUGS on Social Media! We are on [Facebook](#), [Twitter](#), and [LinkedIn](#).
- Check the IUGS website: <http://www.iugs.org/>

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