



Task Group Of “Earth CT”

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LEARDERS: Shuwen Dong, Hans Thybo, Larry Brown

SPONSORS: ILP, SinoProbe,
and IUGS, IRIS, ICDP, NSFC, CGS, GFZ, VESGEI, et al.



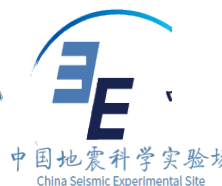
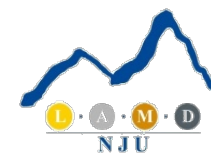
1. ORGANIZATING THE DEEP-2021

DEEP-2021



Nov.1-6, 2021

**International Symposium
on Deep Earth Exploration and Practices**



The Theme of DEEP-2021:

"New Collaborations in Deep Earth Studies"

19 Invited Plenary Reports

- Covering **hot topics and cutting-edge advances in the global deep earth Exploration & Research field**
- 15 Chinese and foreign Experts chaired the sessions and commented on the work

12 Specialist Topics

- **300 presentations from 44 countries** covering deep earth tectonic evolution, deep matter circulation, deep earth resource exploration, ultra-deep scientific drilling and monitoring, geophysical exploration techniques and methods, international deep earth exploration programmes, etc.

Live online session, video reports and iPoster provided more deeply discussion

- **31 live topics, more than 210 recorded presentations and 100 online iPosters** to bring fuller academic exchange and learning opportunities
- The entire online conference platform lasted 18 days and provides 1.5T of audio and video materials

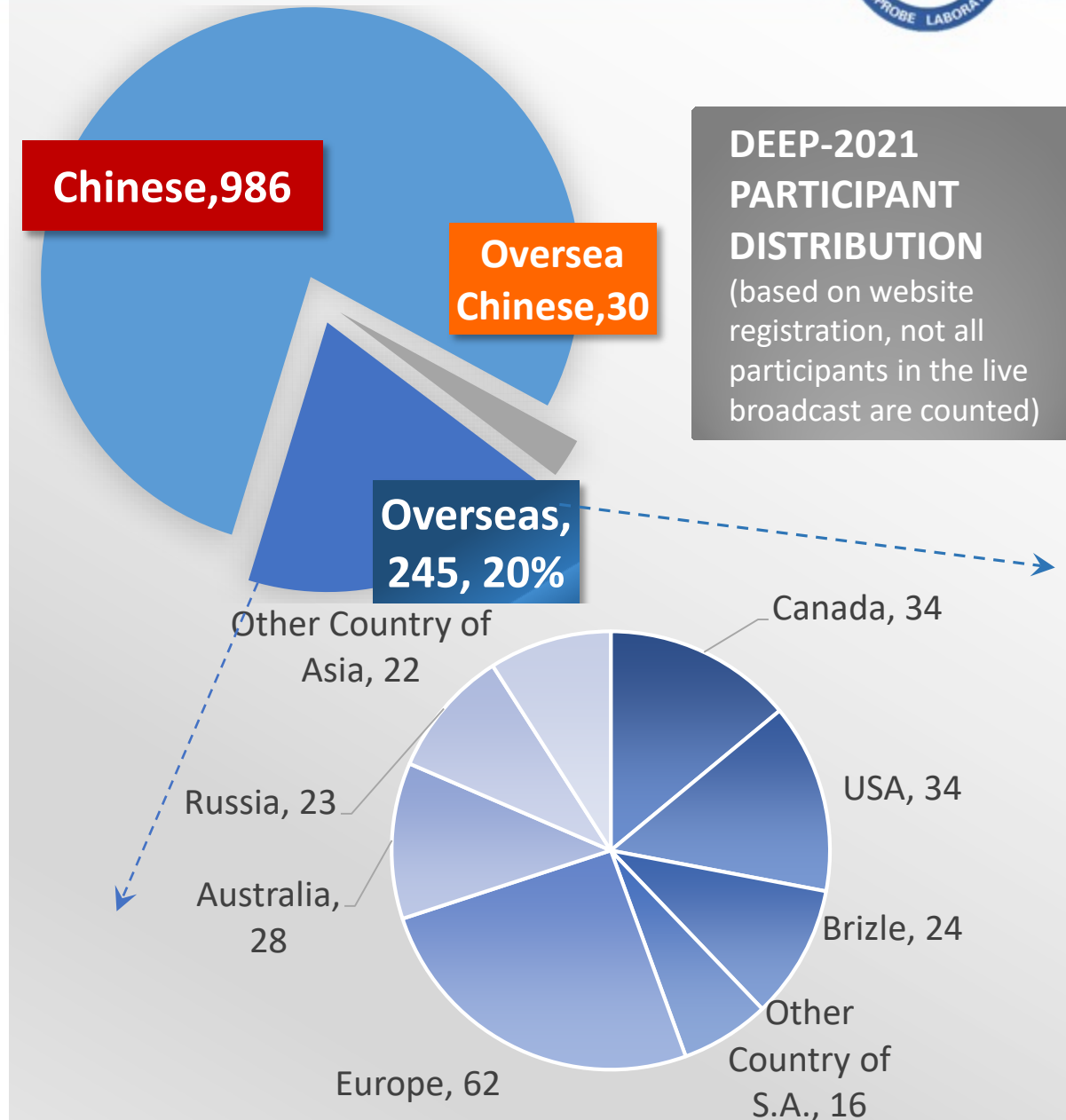
Statistics of Registered Attendees

Total of **1231** registrants, including 986 Chinese delegates

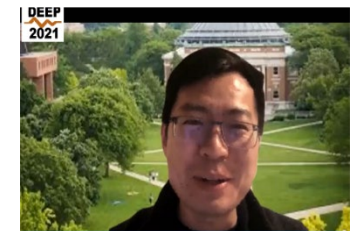
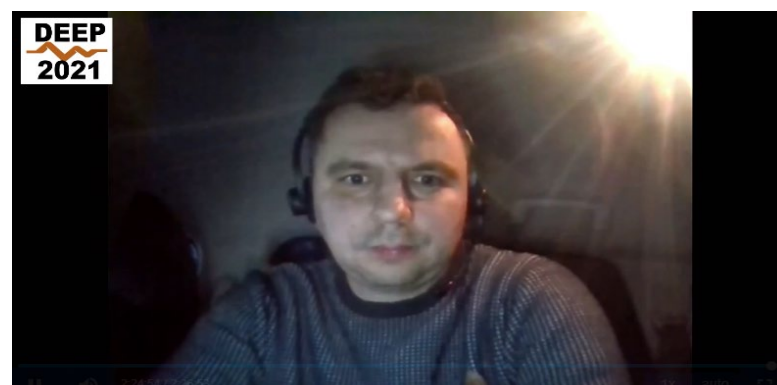
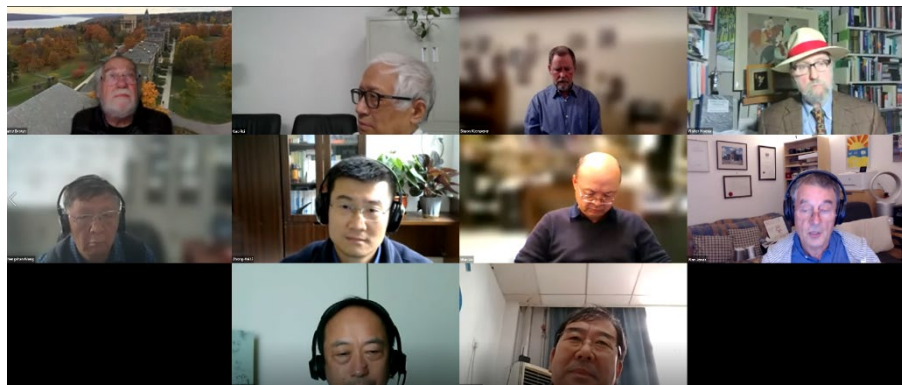
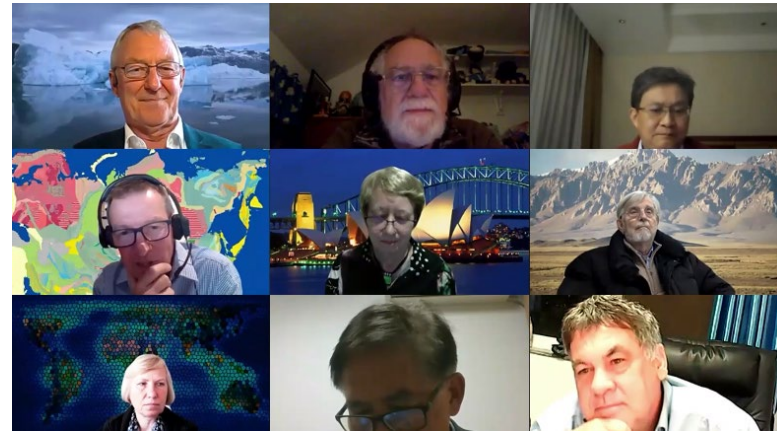
The conference delegates cover **44** countries from **5** continents.

A total of **384** papers were submitted, and **213** oral presentations and **126** iPoster online presentations were selected.

The total number of online presentations has now reached 130 hours, with about **1.5T** of video material and over **100,000** hits on the pre-conference recorded presentations.



18 Live Sessions and 31 Periods with Over 250 Keynote Speakers and Moderator Answers

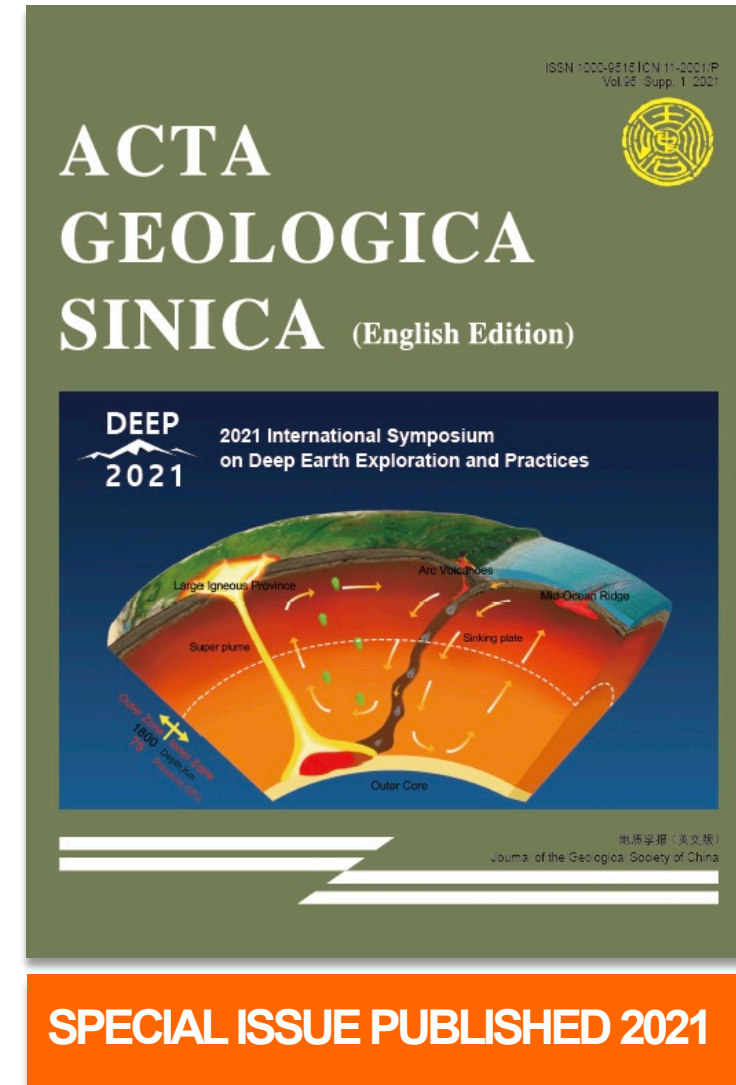


DEEP-2021 Academic Event Generates Great Response



In spite of the challenges of moving such a complex symposium fully online in a relatively short time, the result was generally well received. Here are some comments from participants:

- ❖ "DEEP-2021 was organized very successfully and built an effective academic platform for communication“, *from ZQ Hou, Deputy Chair of CNSF*
- ❖ "We originally thought that the online conference would be not a good way to communicate, but DEEP-2021 allows us to communicate more than physical meetings and lively..” *from Suzan Oliver, Deputy Chair of Australia NSF*
- ❖ "This is a good example and a good direction for future meetings organization“, *from Thybo Hans, President of ILP*
- ❖ "DEEP-2021 gives us the opportunity to participate in more forums and learn more about the progress of international geological work“ *from Irina Artemieva, New Elected President of EGU*
- ❖ “This is a real live workshop and I am very lucky to participate in DEEP-2021“, *from Boggs, Canada*
- ❖ “We hope that the DEEP-2021 platform will be retained for a longer time. We hope the DEEP-2021 platform will be retained for a long time.“ *from Ivan, VESIGE, Russia*



2. ABOUT THE EARTH CT



DEEP-2021 Held The Keynote Session :“**Earth CT---Quo Vadis---**Identifying critical areas of the Earth that are still unexplored by deep lithospheric techniques”

21 oral reports from 12 nations released their working planning.
140 scientists involved in the virtual discussion.

- ❖ To integrate the profiles to make a global transection
- ❖ Leading by deep seismic reflection technology and adopting multi-disciplinary approaches, transcontinental, continental-oceanic, super-long and high-resolution will focus on comprehensive research on geoscience transect.

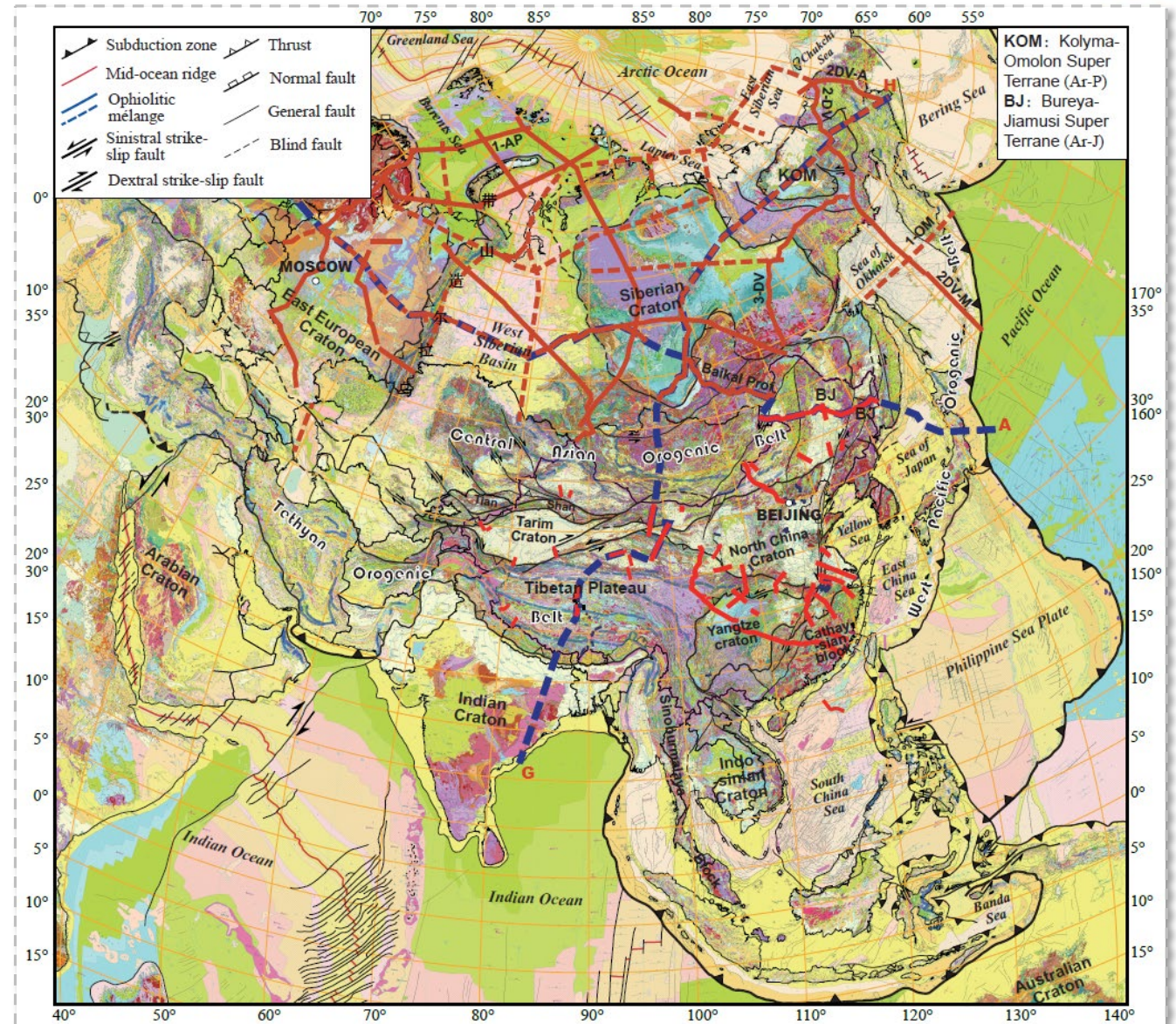
China-Russia-Mongolia



❖ After the Workshop in 2020 between Chinese Academy of Geological Sciences (CAGS) and Russian Geological Research Institute (VSEGEI), a **Construct Big-cross Transect** has been proposed

- E-W : NE China-Russia(Euro)
- N-S: Tibet-Mongolia-Siberia

❖ Unfortunately, due to the pandemic and other reasons, no progress was made in 2021





Cooperation Contents:

1. GFZ takes the leadership in the collection of deep profiles and other geological/geophysical data and the construction of geological transects across the European continent and the Atlantic Ocean.
2. Ultra-long geological transects will be constructed to carry out comprehensive deep-earth scientific research and jointly compile scientific reports on the structure and evolution of the Eurasian continent.

Chinese Leading Scientists: Prof. DONG Shuwen, Prof. LV Qingtian, SinoProbe Lab, CAGS

German Leading Scientists: Prof. Charlotte Krawczyk, Prof. Magdalena Scheck-Wenderoth, Dr. Christian Haberland, GFZ





Thank You !

Your suggestions are welcome: swdong@cags.ac.cn