



# Time Integrated Matrix for Earth Sciences

## Forming an International Coordination Network to Synchronize Regional Climate Records of the Last 100 Million Years

### TIMES - Working Groups

- WG 1 - Biostratigraphy
- WG2 - Magnetostratigraphy
- WG3 - Chemostratigraphy
- WG4 - Radioisotopic Dating
- WG5 - Astrochronology
- WG 6 - Climate Proxy Data
- WG7 - Climate Modeling
- WG8 - Data Base / WebHub
- WG9 - Age Model Assessment Data Processing
- WG10 - Orbital Solutions
- WG11 - Equity Diversity Inclusion
- WG12 - Training the next Generation

### TIMES needs your contribution !

An international team of over 130 scientists organised in 12 Working Groups are in the process of designing the Time Integrated Matrix for Earth Sciences (TIMES) Program, a nascent coordination network of experts, including early-career researchers, across paleoceanography, paleoclimatology, geochronology, and Earth system modeling to establish, foster and strengthen research collaborations.

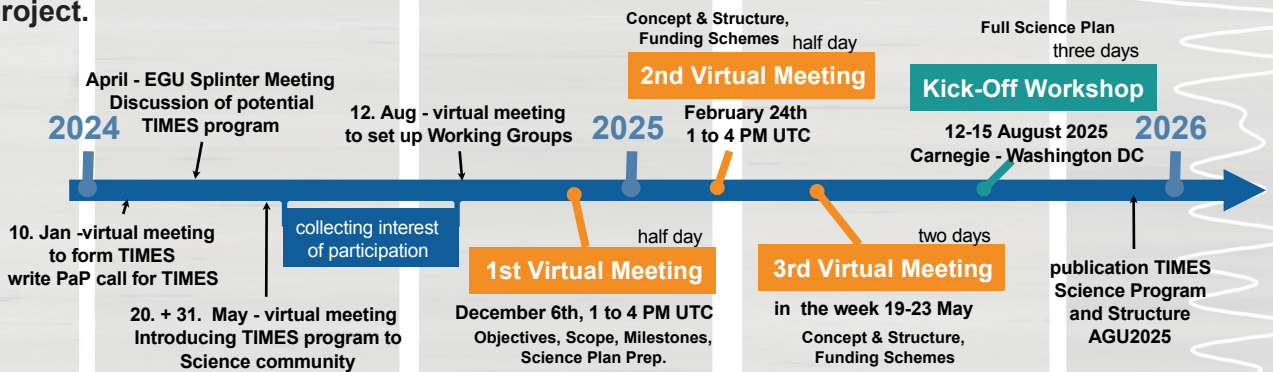
TIMES is an ambitious scheme to construct a single accurate timeline for climatic events of the last 100 million years, to allow for comparison of climate proxy records with orbital-scale (i.e., on the order of 10,000-year) precision.

TIMES is intended to recalibrate the dating tools available to paleoclimatologists – i.e., the local and regional information obtained from bio-, magneto-, and chemo-stratigraphy as well as radioisotopic geochronology – with the synchronizing tool of astrochronology.

TIMES aims to facilitate and coordinate the interaction of proxy and modelling communities with the astro/geochronology community in an inclusive way. Cross-fertilization of expertise is needed to generate new age models for sediment records from which key climate events have been or can be reconstructed. This initiative is expected to make a significant contribution to the understanding of Earth history and in particular, Earth's climate history.

### TIMES Timeline

TIMES is in the process of designing its Science Program. In preparation of the in-person kick-off workshop in August 2025, three online workshops are scheduled, where individual working groups report on their progress to date and for the entire group to discuss how best to approach and advance the project.



SCAN TO:  
know more



participate in the  
Working Groups



read the TIMES  
white paper

