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## Listing of Sessions per INQUA Commission

### Coastal and Marine Processes

Arctic landscape evolution and long-term coastal change (Poster only)

Back to the future: Submerged shorelines on the shelf as tools for climate, sea-level and future shoreline reconstructions.

Geological and geophysical archives of ice sheets on continental shelves

Integrating instrumental data, geological data and modelling to better constrain high-latitude ice sheet and glacier change

Linking land and sea - multiple approaches to investigating human-environment interactions in the coastal zone

Quaternary evolution and depositional environments of the North Sea Basin

Sea-level changes from minutes to millennia (Poster only)

Subduction zone palaeoseismology

The sedimentary record of tsunamis and storms

Using the "multi-proxy approach" to detect landscape and environmental changes

Other



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## Humans and Biosphere

### Ancient DNA from Quaternary and archaeological sediments

Before and after the earliest Homo dispersal in Eurasia: Early-Middle Pleistocene faunas and vegetation and the dynamics of the human resource space

### Combining palaeoecology with ecological models

### Connecting palaeoecology with present and future ecosystem dynamics

Continuous records of tropical climate and environmental history

Do species move, adapt or die? Exploring biodiversity dynamics in the fossil record

Geoarchaeology between Mediterranean areas and arid margins: human-environment interaction and landscape mobility

Geoscience for sustainable futures

Human and non-human responses to the mid-Pleistocene transition

Human-environment interactions in the late Quaternary: sources of evidence and applications

Lake systems in the Anthropocene

Life on the edge: Landscapes and foodscapes in prehistoric western Europe

Life on the ledge: Human-environment dynamics in Earth's high mountains and plateaus

Linking palaeo-environmental signals with social, cultural or economic change – attempts to disentangle causes and effects

Losing legacy: Climate change and cultural heritage

Making the Quaternary relevant: Outreach and education

Multi-proxy environmental archaeology: sedimentary remains and biomolecules as alternative to excavations?

New advances in reconstructing biotic interactions in the Quaternary fossil record

Old World ceramic origins and behavioural contexts from the Late Pleistocene to Early Holocene

Pleistocene hunter gatherers in extreme environments

Plio-Pleistocene environmental change and human origins

### Quantitative reconstruction of landscape-scale Holocene vegetation mosaics to address ecological and archaeological questions

Quaternary polar environmental history: Joint proxies and views from both poles

### Quaternary science and the Arts, Humanities, and Social Sciences



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Quaternary's three Rs, Retrieval, Reuse and Reflection: Optimising pre-existing data to reimagine the past

Resilience, stability and abrupt change in long-term ecological records.

Sub-decadal to centennial analysis of past ecosystem change

The application of Quaternary science to societal issues in the 21st Century

### The changing tropical landscape

The Levantine Corridor: Before humans, during human dispersal and settlement and the future

The origins and history of Quaternary science

Unanswered questions on the Initial Upper Paleolithic and the first modern human dispersal across Eurasia

Upscaling palaeoecological, archaeological and historical records of land-use and land-cover change

Valuing the Quaternary: Nature conservation and geoheritage

Other



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## Palaeoclimate

Abrupt changes in climate and ice sheets during glacial-interglacial cycles

Abrupt climate changes: the view from lakes

Advances in historical climatology and climate history

Aeolian mineral dust and climate: Interactions, simulations and climate archives

Arctic sea ice reconstructions and proxy development

Are North Atlantic 'Heinrich Stadials' cooling or warming events...or both?

Bayesian statistical analysis methods for paleoclimate data

Black Sea and Caspian in the frame of their Eurasian drainage basin

Bridging the gap between proxies/reconstructions and simulations in the late Holocene period

Building a better understanding of past climates, ecosystems, and societies through Open Big Data

Climatic and human impacts of volcanism during the Quaternary

Connections across the ITCZ boundary: Asian and Australasian monsoon dynamics and variability during the Holocene

East Afro-Asian and Indian summer monsoon reconstruction: Terrestrial and marine records since the MIS-5 to MIS-1

Glaciers, moraines and climate: Challenges of identifying, dating and extracting palaeoclimatic data from former glacier fluctuations

Global palaeoclimatic signals in groundwater and use of groundwater in adaptation to climate change (Poster only)

Heinrich events in terrestrial archives

High-resolution palaeoenvironmental reconstructions from lake sediment records: new methods, new records, new challenges (Poster only)

Holocene climate variability in Antarctica and the Southern Hemisphere

Hydroclimate change in Drylands

INTEgrating Ice core MARine and TERrestrial records to understand climate variability on decadal to millennial timescales

Interpreting XRF core scanner records of natural and anthropogenic changes in marine and lacustrine archives

Into the Ice Age: Exploring the distribution and volume of ice sheets during past glaciations

Late Quaternary environmental change in the South Pacific: climate, ecosystem dynamics and human colonisation



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Mapping and interpreting sea-level change through time and space

MIS 3 glaciation and the prelude to the LGM

Orbital and millennial scale climate changes in ice, ocean and land: observations and model simulations

Palaeoclimate records and atmospheric circulation patterns

Palaeoclimatic and oceanic evolution in the North Atlantic region since the Last Glacial Maximum – linking ice sheet, terrestrial and marine records

Palaeo-ice sheet model-data interactions

Quaternary climate dynamics peculiar to the Mediterranean region

Quaternary glaciations and palaeoclimate of Patagonia

Southern Hemisphere Assessment of PalaeoEnvironments (SHAPE)

Stable and clumped isotopes in biogenic carbonates: applications and limitations in palaeoenvironmental studies

Stable isotopes in palaeoenvironmental reconstructions: understanding climate change and nutrient cycling

Sub-annual to decadal records of environmental change

Terrestrial hydroclimate variability (Poster only)

The Big MIS4: Records of worldwide Marine Isotope Stage 4 glacial, climatic, and environmental changes

The last glaciation of the Southern Hemisphere

The Last Interglacial and interglacial comparisons: local records and global signals

The palaeoceanographic signal: Assessing spatiotemporal precision and accuracy in climate reconstructions and geochronology

The Plio-Pleistocene transition

The Quaternary of Africa

Tree-ring archives

Understanding Quaternary proxy records of teleconnections between mid-latitudes, polar and tropical regions

Vegetation responses and human adaptations to environmental changes in the Holocene of West Africa

Other



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## **Stratigraphy and Chronology**

Aeolian deposits: New understandings of chronostratigraphy, palaeoenvironments and processes (Poster Only)

Chronology and environmental context of hominin occupation in the Southern Caucasus

Estimates of global ice volumes during MIS 3 in need of re-evaluation: A multi-disciplinary approach

Formal chronostratigraphy in the Quaternary

Multidisciplinary applications in tephrochronology - from archaeology to volcanology

Ponto-Caspian stratigraphy and geochronology: Understanding Caspian - Black Sea - Mediterranean Corridor evolution in the Quaternary

Quaternary data without frontiers: the International Quaternary Map of Europe 1 : 2.5 million

Role of the IntCal radiocarbon calibration curves in Quaternary science

Tephros on the edge: Advances in distal tephrochronology – methodologies, frameworks and databases

The European Loess Belt - a high-resolution archive of rapid environmental change

The future of Quaternary geochronology

The Quaternary of Europe: stratigraphical perspectives and tools for correlations.

Towards sub-decadal precision in reconstructing climatic and environmental change from high resolution lacustrine archives

Other



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## Terrestrial Processes, Deposits and History

### A new age of Paleofire research: Insights from the past and challenges for the future

Advances in Quaternary geological and geomorphological mapping: Approaches to data collection, processing, management and application

African paleoclimates and paleoenvironments: From off shore records to continental archives, from landscape responses to human adaptation

Caves as hidden Quaternary archives

Dates, rates and bytes: Quantifying and deciphering Quaternary Earth surface dynamics

Development of soft-sediment deformation structures (SSDS) and differences between non-seismic and seismic structures (Poster only)

Drumlins - studies of a persisting enigma

Dust sources and emission dynamics from different geomorphic units during the Quaternary and at present

Earthquake geology and seismic hazards: From earthquake mapping of historical and prehistoric earthquakes to paleoseismology

Engineering in the Quaternary

Frontiers in drylands research

Glacial and periglacial landsystems – recent advances and their implications for engineering geology

Glacier response to abrupt climate change

Glacifluvial processes and products: Implications for Quaternary glacier dynamics

Glacigenic signatures of the last British-Irish ice sheet

Holocene glacier change in High Mountain Asia

Integrating stratigraphy and geology to constrain cosmogenic nuclide interpretations of earth surface processes

Mediterranean rivers in the Quaternary

Microsedimentology and micromorphology of Glacial Sediments

Mountain glaciations and their diversity: Challenge and potential (Poster only)

Multiproxy studies on continental carbonates: Palaeoclimates and palaeoenvironments

### Palaeohydrology and fluvial archives - hydrological extreme and critical events (HEX)

Palaeo-Ice streams: Forms, processes and palaeoglaciology

Paleoseismology of plate interiors under Pleistocene climate changes (Poster only)



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Paraglacial environments and processes in the Quaternary and Holocene: What happens and when?

Peatland dynamics through time and their use as environmental archives

Proglacial lakes in the Quaternary

Quaternary geoarchaeology of South Asia

Quaternary glaciations: Processes, sediments and landforms

Quaternary landscape evolution: Model and field perspectives

Quaternary Mars

River terraces as archives of Quaternary landscape development (Poster only)

Role of large-scale rockslides in landscape evolution (Poster only)

Sediment archives to unravel environmental change influencing human dispersal in the European Plain (Poster only)

Silt, snails, carbonates and wiggles: Challenges and advances in the geochronology of loess archives

Soil formation - its rates and its use for reconstructing Quaternary landscape evolution (Poster only)

Strontium isotope applications in Quaternary paleoecological and archaeological research

Subglacial processes and environments: Morphology, sedimentology and modelling as tools to inform Quaternary glaciation extent, style and dynamics

Tephra: Shaping and recording Quaternary environments

Other