



GEOSED NEWSLETTER



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Opening letter

Dear GeoSed members and sympathisers,
I am glad to send you the GeoSed Newsletter of 2024!
As previously stated, the Newsletter is a tool to informally share the ongoing projects and to keep everybody updated about the most recent researches of GeoSed members who accept to participate. In fact, even if I am aware that the newsletter does not show a comprehensive picture of all the sedimentological and stratigraphic researches going on in Italy, I am pleased to say that it portrays a diverse and active community involved in many different projects.





Committee Members

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In this number, we congratulate Chiara Amadori as winner of the Best Publication in Sedimentary Geology, and invite you all to the next IAS, SGI and GeoSed Meetings.

Furthermore, a couple of novelties were introduced.

Firstly, several photos were shared by colleagues, photos that show us the beauty of sedimentary geology from Italy to Morocco, from Portugal to Canary Islands. Secondly, a “Reading suggestion” column has been introduced, meant to share dissemination and leisure readings. In this number, several titles are listed, spanning different topics, from Earth’s evolution to history of geology of Sicily, from marine ecology to climate change and other themes related to the broad world of geosciences. I personally look forward to reading them all.

Waiting to see you all in the next meetings, I invite you to enjoy the newsletter!

Best

Irene Cornacchia on behalf of the GeoSed Committee

This number has been edited by Irene Cornacchia.

Cover photo: Late Quaternary coastal dunes (Alghero, Sardinia, IT). Photo by Vincenzo Pascucci





GeoSed Awards Winners

Winner for the best publication in sedimentary geology of 2023

Chiara Amadori has been awarded for the paper “*The role of mantle upwelling on the thermal history of the Tertiary-Piedmont Basin at the Alps-Appennines tectonic boundary*” (2022), *Basin Research*, 35(3).



News and upcoming events

Congresses and Workshops

- **The IAS Conference of 2024** will be held in Aberdeen (Scotland) from the 25th to the 27th of June. Further information is available on the website <https://www.iasaberdeen2024.org/>
- The joint **SIGI-SIMP Congress “Geology for a sustainable management of our Planet”** will be held in Bari, from the 3rd to the 5th of September 2024. Further information is available on the website <https://www.geoscienze.org/bari2024/>
- **Next** GeoSed Meeting will be held in Calabria on the spring/summer of 2025.

Reading suggestions

- **L'oro del diavolo**. AA.VV. Curatori dell'Opera Rosalda Punturo, Rosolino Cirrincione, Rosanna Maniscalco. Club Alpino Italiano, Gruppo Regionale Sicilia, Comitato Scientifico Regionale Sicilia
- **Il Quinto Giorno** by Frank Schätzing
- **Planet in a pebble** by Jan Zalasiewicz
- **The Climate Question: Natural Cycles, Human Impact, Future Outlook** by Eelco J. Rohling
- **Timefulness** by Marcia Bjornerud

Social Media

You can follow the ongoing activities of the GeoSed on the dedicated page of the Italian Geological Society website, or on our social pages.

- **Website:** *GeoSed* (socgeol.it)
- **Facebook:** *Geosed - Associazione Italiana per la Geologia del Sedimentario* | Facebook
- **Instagram:** *geoseditalia*





Tufa waterfall in the Corvino Valley (North Calabria)
Photo by Edoardo Perri





Members' research topics

Sabrina Amodio (Department of Science and Technology, the Parthenope University of Naples).

Research group: GEAC -GEologia degli Ambienti Costieri

website: <http://dist.altervista.org/geac/index.html>

- Biota-environment interactions, biotic crisis, Cretaceous OAE. Palaeoceanographic & palaeoclimatic reconstruction. Controlling factors on stratigraphic architecture of coastal-shelf (mainly carbonate) systems. SL changes and their impacts on coastal plains. Geo-indicators of the past SL. Landscape reconstructions. Eustatic cycles
- Methodologies: facies analysis, integrated stratigraphy, paleoecology, sequence stratigraphy, Stable isotope analysis
- Earth time windows: Jurassic-Cretaceous, Quaternary-recent.

Luigi Bruno (Dipartimento di Scienze Chimiche e Geologiche - Università degli Studi di Modena e Reggio Emilia)

- Quaternary stratigraphy of alluvial and coastal plain deposits
- Sequence stratigraphy and paleosol stratigraphy
- Quaternary palaeogeography and palaeoenvironments
- Source-to-sink study of sedimentary basins

Enrico Capezzuoli (Earth Sciences Department – University of Florence)

- Study of non-marine carbonate deposits derived from mineral waters (travertine, tufa, sinter...) and their relationship with tectonics, climate and geothermal energy. Stratigraphic/sedimentological characterization of the Palaeozoic basement of the Northern Apennines: implications in orogenetic architecture and correlation with coeval formations in Italy and abroad.

Paola Cipollari, Domenico Cosentino, Anas Abbassi, Marco Liberatore, Federico Artegiani, Selma Sari (Department of Sciences, Roma Tre University)

- Study of Neogene successions of the Mediterranean area;
- Analysis of syn-tectonic sedimentary basins related to the Apennine orogeny;
- Messinian salinity crisis in the Mediterranean area;
- Geological mapping;
- Calcareous nanofossil biostratigraphy.

Irene Cornacchia (Consiglio Nazionale delle Ricerche)

- Facies and microfacies studies on Cenozoic Tethyan shallow-water carbonates.
- Carbon and oxygen isotope stratigraphy for paleoclimatic studies and carbon cycle perturbations identification during the Cenozoic.
- Study of the Sr and Nd isotope systematics across the Miocene, Central Mediterranean carbonate records for paleoceanographic reconstructions.





Travertine cone of Rapolano Fissure ridge.
Photo by Alessandro Mancini





Gianluca Cornamusini & Luca Zurli (Department of Physical, Earth, and Environmental Sciences - University of Siena)

- The research activities cover two main topics. The first is the multianalytical provenance study of Cenozoic glaciomarine sediments in the Ross Sea (Antarctica) to understand ice variations in response to past climate changes. The second concerns the sedimentologic-stratigraphic, biostratigraphic, and provenance study of glacial and fluvial sedimentary sequences deposited in southern Gondwana (Antarctica and Tasmania) and the response to climatic and tectonic changes between Permian and Triassic.

Alan Maria Mancini & Alessandra Negri

- Oxygen is essential for most of the eukaryotic life on Earth: its reduction in the marine environment has led to biological repercussions, from cellular to ecosystem processes. While deoxygenation affects various marginal sites in the Mediterranean Sea, the direction and intensity of future events under climate change remain uncertain. Our aim is to unravel the causes and effects of past deoxygenation events to gain insights into ongoing processes and get clues for future scenarios.

Alessandro Mancini (Università degli Studi di Roma La Sapienza)

- Geological mapping of the Cretaceous carbonate platform deposits of the Ausoni Mts. (CARG Sheet 414_Terracina). Facies analysis and reconstruction of the depositional geometries.
- Study of continental carbonates deposits. Geochemistry, facies analysis and stratigraphic reconstruction.
- Study of the relationships between continental calcium carbonate precipitation, geogenic CO₂ emissions in subaerial setting and volcanic activity.

Marco Mancini (Consiglio Nazionale delle Ricerche)

- Sedimentology of fluvial, shallow-marine and lacustrine deposits.
- Quaternary geology.
- Sequence stratigraphy and stratigraphic architecture, with particular interest on incised valley fills, terraces and deltas.
- Seismic microzonation.
- Extensional basins.





**Lower Pleistocene delta gravels and sands, Nazzano, Latium.
Photo by Marco Mancini**





**Lithological expression of cyclic deoxygenation events.
Photo by Alan Maria Mancini**





Rosanna Maniscalco (Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Università degli Studi di Catania)

Tettonica e sedimentazione; Biostratigrafia (Gran Canaria, Piana Abissale Madeira e Mediterraneo); Controllo termico sull'evoluzione delle Maghrebidi e dell'Arco Calabro-Peloritano; Rotazioni di blocchi lungo le faglie (Yunnan, Cina); Controllo tettonico sulla sedimentazione di arenarie profonde (Sicilia e Appennino meridionale), Biostratigrafia integrata ed analisi isotopiche e geochimiche (Messiniano-Pleistocene); Analisi del microbenthos per la valutazione della qualità dell'ambiente.

**Ivan Martini (Department of Physical, Earth and Environmental Science, University of Siena)
Team: Allegra Brugassi (PhD)**

- Ancient and present deltaic systems (depositional processes, lateral facies variations, stratigraphic architectures, auto- and allo-cyclic controlling factors);
- Coastal dynamics and beach erosion processes;
- Cave clastic sedimentation.

Kei Ogata (Dipartimento di Scienze della Terra, dell'Ambiente e delle Risorse (DiSTAR), Università di Napoli "Federico II")

- Physical stratigraphy, structural geology and sedimentology of sediment gravity flows with particular focus on mass transport processes and products
- soft-sediment (ductile) to sedimentary facies-related (brittle) deformation with emphasis on sedimentary mélange-forming mechanisms
- structural-mechanical stratigraphy and subsurface fluid flow
- interplay between tectonics, climate and sedimentation in siliciclastic and mixed systems

Vincenzo Pascucci (Sedimentology and Marine Geology, Dipartimento di Architettura, Design e Urbanistica, Università di Sassari)

- Past climate changes as recorded by late Quaternary sedimentary rocks
- Luminescence dating of Mars analogue recent sediments
- Post Last Glacial Maximum Sea level rise and associated fluctuations
- Human impact on coastal behavior
- Sea floor dynamic and changes as consequence of climate

**Edoardo Perri, Mario Borrelli, Pierluigi Santagati, Salvatore Guerrieri
(Dipartimento di Biologia, Ecologia e Scienze della Terra, Università della Calabria)**

- Stratigraphy, sedimentology and biofacies of carbonate shelf to basin sedimentary systems.
- Nano-structure and formation processes of microbial-mediated minerals.
- Depositional, diagenetic, and environmental meaning of fossil and modern microbialites.
- Microbial-mediated minerals as a tool for the development of netO-biomaterials and protocols for environmental management and sustainable natural resources exploitation.





**3D macroforms developed in a beach runnel parallel to the shoreline
(Parco della Maremma, Tuscany).
Photo by Ivan Martini**





Valentina Marzia Rossi (National Research Council of Italy, Institute of Geosciences and Earth Resources)

- Sedimentology and stratigraphy of shallow marine depositional system and shelf margin clinoforms.
- Dynamics of coastal depositional systems, both recent and in deep-time, and integration with forward numerical modeling.
- Coastal and offshore aquifers.

Veronica Rossi (Department of Biological, Geological and Environmental Sciences, University of Bologna)

Research Group: Sequence stratigraphy and Paleoeology of the Quaternary Record

Website: (<https://bigea.unibo.it/en/research/research-groups/sequence-stratigraphy-and-paleoecology-of-the-quaternary-record>)

- Depositional dynamics of alluvial-delta plains at different timescales (from Milankovitch to millennial and sub-millennial scales) in response to natural and human-induced forcing factors
- Palaeoecology (benthic foraminifers, ostracods) applied to Quaternary Geology and Geoarchaeology

SedStrat - Group

Simonetta Cirilli (1), Roberto Rettori (1), Amalia Spina (1), Andrea Sorci (1-2), Nicola Mitillo (1-3), Marco Urbani (1), Haidra Saleh (1), Nilya Bengul (1): Giulia Margaritelli (4)

(1- Dipartimento di Fisica e Geologia, Università degli Studi di Perugia, Italia; 2- Dipartimento di Chimica, Biologia e Biotecnologie, Università degli Studi di Perugia, Italia; 3- Dipartimento di Scienze, Università di Roma Tre, Italia; 4- CNR – IRPI – Perugia)

- (Paleo)climate changes in the geological and historical record and their effects on paleoecosystems. Current research is focused on deep past climate events (Paleozoic and early Mesozoic), Lower Cretaceous, and on the last 2 kya.
- Paleoenvironmental and paleogeographic reconstructions of carbonate and carbonate-siliciclastic depositional systems (Paleozoic and early Mesozoic).
- Sedimentological and structural characterization of potential carbonate reservoirs for Hydrogen and Carbon Capture Storage.
- The research is carried out using an interdisciplinary approach based on sedimentology, sedimentary petrology, biostratigraphy, geochemistry and palynology.
- Research field areas include Apennines, Southern Alps, Portugal, Spain, Morocco, Tunisia, Algeria, Libya, Turkey, Iran, USA, China.





Microbial bindstone from the uppermost Triassic Silves Sandstone and Marl Complex, Praia do Amado-Bordeira section, Algarve Basin, Portugal.

Photo by SedStrat-Group (PG)





Simona Todaro (Department of Earth and Marine Sciences, University of Palermo)

- My research focused on the evolution of sedimentary basins based on sedimentological, geochemical and biostratigraphical data. Studies are based on Mesozoic carbonate successions belonging to western Tethys. Particular attention has been devoted to Triassic/Jurassic carbonate platforms and their biological and geochemical turnover. Further contributions concern the sedimentary processes along Cretaceous carbonate slopes and the application of sequence stratigraphy to study submarine resources.



**Plane and cross bedding from the Upper Triassic Silves Sandstones Unit, Vale Fuzeiros section, Algarve Basin, Portugal.
Photo By SedStrat-Group (PG)**





Ongoing and submitted projects

- Biotic crises in the deep time and the Earth-System responses to the extreme palaeoenvironmental perturbations. **SedStrat - Group**, PI: **Amalia Spina**
- **CARG Project, SHEETS 183, 184**. Co-coordinator **Luigi Bruno**
- **CARG Project, SHEET 286 Poggibonsi**. PI: **Gianluca Cornamusini**; Member: **Ivan Martini**
- **CARG Project Sheet 364-Bracciano**. **UniRoma3 Group**
- **CARG Project Sheet 390-Frosinone**. **UniRoma3 Group**
- **CARG project, SHEETS 404 Isernia and 392 Castel di Sangro**, Chief scientist C. Roskopf, Dip. Bioscienze e Territorio, Molise University. Participant: **Sabrina Amodio**
- **CARG project, Geological SHEET 418 Piedimonte Matese**, Chief scientist G. Pappone, Dip. Scienze e Tecnologie, Parthenope University. Participant: **Sabrina Amodio**
- **CNR DTA.AD003.801 - 2023-2025 Sistemi terrazzati e valli incise: valutazione dei geohazard**. **Marco Mancini**
- **CNR DTA.AD003.703 - ART. 15 -FAC-MS ETNA**: Attività di supporto al Dipartimento Regionale della Protezione Civile per la prevenzione e riduzione del rischio sismico nell'ambito del piano regionale di microzonazione sismica per la realizzazione di studi di MS di cui al programma nazionale di prevenzione del rischio sismico (ex art. 11 legge 77/2009). **Marco Mancini**
- **Compound clinoform deltas**. This project focuses on the study of compound clinoform deltas, in order to create new facies models and identification criteria. **Valentina Rossi**
- Environmental changes in the coastal-shelf segment during the Quaternary: bio-sedimentary patterns and their controlling factors – Earth, Life and Environmental Sciences (STVA) **PhD program UniBo**. **Veronica Rossi**
- EMPT in the Eastern Mediterranean (Southern Anatolia). **UniRoma3 Group**
- **ERC Synergy “Last Neanderthals”**. PI: Francesco Berna; Member: **Ivan Martini**
- **HEHS: High-Efficiency Hydrogen Storage ID: RSH2B_000052, PNRR project**. Participant: **Simonetta Cirilli**
- Holocene paleo-flood identification within terrestrial and marine archives – in collaboration with ISMAR-CNR and UniPi. **Veronica Rossi**
- Holocene vertical movements of the coastal zones of the Central and Eastern Mediterranean. **UniRoma3 Group**
- **INVOLVE (EU-2021): INtegration of sustainable deVeLopment goaLs in uniVeRsities for better climate change management** EAC-A02-2019-CBHE, EPLUS, Grant number 619313. Coordinator Organisation - ALEXANDRIA UNIVERSITY, Beneficiary, UNIVERSITY OF SASSARI, Unit Resp. **Vincenzo Pascucci**
- Multiple paleovalleys in low-accommodation settings – in collaboration with UniPi. **Veronica Rossi**





Sand dune field, Sahara desert (Merzouga, Morocco).
Photo by Domenico Cosentino





Ongoing and submitted projects

- **MODEL-PROSAM:** 2D analysis and modeling of geo-marine natural disaster-prone areas and quantification of coastal erosion of the littoral zones of the southern provinces of Moroccan Sahara. **UniRoma3 Group**
- **PNRA19_00120** - “The response of the sedimentary system through Permian to Jurassic abrupt climatic and provenance changes in Northern Victoria Land”. The project aims to investigate the relationships between sedimentation, provenance, and paleoenvironment to understand the interactions among sedimentary processes, climate/environment changes, base-level provenance changes, volcanic activity, and tectonic evolution of the Victoria Land Basin (Antarctica) in the latest Paleozoic and Mesozoic. **Gianluca Cornamusini & Luca Zurli**
- **PNRR 2022 (Italy):** “e.INS Ecosystem of Innovation for Next Generation Sardinia” - Codice Progetto: ECS00000038 - CUP UNISS: J83C21000320007. Beneficiary, UNIVERSITY OF SASSARI. **Vincenzo Pascucci**
- **PNRR 2022 (Italy):** “National Biodiversity Future Center - NBFC” - Codice Progetto: CN00000033 - CUP UNISS: J83C22000870007. Beneficiary, UNIVERSITY OF SASSARI. **Vincenzo Pascucci**
- **PRIN-2022APF9M2:** Abrupt Lithofacies Variations IN the stratigraphic record: proxies for environmental and climate changes – **ALVIN**. PI **Simonetta Cirilli**; Participants: **Roberto Rettori, Amalia Spina**
- **PRIN 2022 - DEEP PAST:** DETAILING THE PALAEOGEOGRAPHY OF SOUTHERN PALAEOEUROPE BY MEANS OF BIOSTRATIGRAPHIC CORRELATION AND BASIN DEVELOPMENT IN THE PALAEOZOIC TO EARLY MESOZOIC TIME-FRAME: CASE HISTORIES FROM THE ITALIAN RECORD. **Enrico Capezzuoli**
- **PRIN_2022ZSMRXJ** (EU-Next-GenerationEU - NRRP MISS.4 C.2, I.1.1, D.D. 104 02-02-2022) **GAIA project** - Geomorphological and hydrogeological vulnerability of Italian coastal areas in response to sea level rise and marine extreme events P.I. G. Mastronuzzi. Participant: **Sabrina Amodio**
- **PRIN PNRR 2022 “NatResPoND”** funded by the European Union – NextGenerationEU. This project aims to test the feasibility of nature-based solutions to increase the resilience of the Po River Delta to relative sea-level rise. **Valentina Marzia Rossi**
- **PRIN 2022 PNRR** - Testing the efficiency of submarine landslides on organic sequestration over geological times (TOOLS) Responsabile Unità UNICT. **Rossana Maniscalco**
- **PRIN2022 “PPT_IMPACT** - Climatic impact on terrestrial and marine realms of the eastern Mediterranean at the Plio-Pleistocene transition” PI **Ivan Martini**
- **PRIN PNRR 2022 (P2022T3A4E)** - Testing the efficiency of submarine landslides on organic carbon sequestration over geological times (TOOLS). P.I. **Kei Ogata**





Martian landscape on Lanzarote (Canary Island, SP)
Photo by Vincenzo Pascucci





Ongoing and submitted projects

- **RESPIRE** - Research Educational and Storytelling Project in Italian Remote Ecosystem. Founded by the National Geographic Society. PI: Martina Capriotti; Member: **Ivan Martini**
- Seismic, sequence stratigraphy and sedimentology to study the **sedimentological evolution** of sedimentary basins concerning the **climatic variations recorded over the last 20,000 years**. **Simona Todaro**
- Structural Stratigraphic Study of the Mesorif Range (Morocco). **UniRoma3 Group**
- Stratigraphic-structural analysis of the Plio-Quaternary intermontane basins of the Central Apennines. **UniRoma3 Group**
- **The Deep Dust Drilling Project:** Earth-System Responses to the Penultimate Icehouse Collapse and Greenhouse Intensification, International Continental Drilling (ICD) Program 2022. Co-PI **Simonetta Cirilli**; Participant: **Roberto Rettori**
- **Triassic-Jurassic carbonate successions** from **western Tethys** and the recovery of carbonate sedimentation after a **mass extinction** event. **Simona Todaro**
- Using multiple tools (calcareous nannofossil micropaleontology and clumped isotopes) at ultra-high resolution our research focuses on the Mediterranean area (Eastern Mediterranean deep-sea IODP cores and coeval marginal sites) **to investigate the warm Pliocene deoxygenation events**. This geological interval represents the optimal timeframe for investigating oceanographic and biological changes associated to elevated temperatures, similar to those expected by the end of the century. **Alan Maria Mancini & Alessandra Negri**
- **WACOMED (2023- Italy)**. A Warming sea and Coastal retreats around Mediterranean basin (PRIN 2023) - P2022EPCJS. Beneficiary, UNIVERSITY OF SASSARI, Unit Resp. **Vincenzo Pascucci**
- **WP 5.2 (2023):** A multidisciplinary design approach to the study of climate and climate warming and its scientific, economic, and social impact on the Central Mediterranean continent **SedStrat - Group**
- **WP 5.2 (2024):** InterDrought Solutions: An Interdisciplinary Approach to Sustainable Water Management and Drought Mitigation. **SedStrat - Group**





**La Caldera Blanca sedimentary environment. Analogue of Mars meteor crater (Lanzarote, Canary Island, SP)
Photo by Vincenzo Pascucci**





Recently published papers

- **Amodio, S.**, Barattolo, F., Parente, M. (2023). The Early Cretaceous C-isotope record of shallow-marine carbonates: a transect across southern Alps, Apennines and Dinarides. *Rend. OnLine, Soc. Geol. It.*, 56, 28-34, <https://doi.org/10.3301/ROL.2023.05>
- Amorosi, A., **Bruno, L.**, Caldara, M., Campo, B., Cau, S., De Santis, V., Di Martino, A., Hong, W., Lucci, G., Pellegrini, C., **Rossi, V.**, Sammartino, I., Vaiani, S.C. (2023). Late Quaternary sedimentary record of estuarine incised-valley filling and interfluvial flooding: the Manfredonia paleovalley system (southern Italy). *Mar. Pet. Geol.* 147, 105975.
- Andreucci, S., Santonastaso, A., De Luca, M., Cappucci, S., Cucco, A., Quattrocchi, G., **Pascucci, V.** (2023). Shallow water dunefield of a microtidal, wind-dominated strait (Stintino, NW Sardinia, Italy). *Geological Society of London, Special Publications*, 523, 173 – 194, <https://doi.org/10.1144/SP523-2021-188>. Scopus id: 2-s2.0-85153509124
- Azizi, R., Barhoumi, A., **Mancini, A.** (2024). New insight on the structural architecture of northern Tunisia with a multidisciplinary approach: Association of Miocene piggy-back basin and active Plio-quaternary out-of-sequence thrusts. *Marine and Petroleum Geology* 160, 1-19, 106639.
- Benamri, S., Costa, P.J.M., Zaghloul, M.N., Mercier, J.L., **Abbassi, A.**, EL Mourabet, M., Aboumaria, K. (2023). Provenance and sedimentary processes on Pleistocene storm deposits in Harhoura (Northern Coastal Atlantic, Morocco): New constraints from a source to sink perspective. *Marine Geology*, 457, 106992.
- **Borrelli, M., Perri, E.**, Critelli, S., Gindre-Chanu, L. (2021). The onset of the Messinian Salinity Crisis in the central Mediterranean recorded by pre-salt carbonate/evaporite deposition. *Sedimentology* 68, 1159-1197. <https://doi.org/10.1111/sed.12824>
- Boschini, F., Columbu, A., Spagnolo, V., Crezzini, J., Bahain, J.J., Falguères, C., Benazzi, S., Boscato, P., Ronchitelli, A., Moroni, A., **Martini, I.** (2022). Human occupation continuity in southern Italy towards the end of the Middle Palaeolithic. A palaeoenvironmental perspective from Apulia. *Journal of Quaternary Science*, 37, 204-216, 10.1002/jqs.3319
- Brogi, A., Isarde, I., Árnadóttir, S., **Capezzuoli, E.** (2023). Tectonic control on travertine and silica sinter deposition in oceanic transform-fault setting: the case of the Lýsuskarð volcano-geothermal area, Snæfellsnes Peninsula, Iceland. *International Geology Review*, DOI: 10.1080/00206814.2023.2180779
- Budillon, F., **Amodio, S.**, Alberico, I., Contestabile, P., Vacchi, M., Innangi, S., Molisso, F. (2022) Present-day infralittoral prograding wedges (IPWs) in Central-Eastern Tyrrhenian Sea: Critical issues and challenges to their use as geomorphological indicators of sea level. *Marine Geology*, 450, 106821, ISSN 0025-3227, <https://doi.org/10.1016/j.margeo.2022.106821>





- Butler, R.W.H., Pinter, P.R. **Maniscalco, R.**, Hartley, A. (2020). Deep-water sand-fairway mapping as a tool for tectonic restoration: decoding Miocene central Mediterranean palaeogeography using the Numidian turbidites of southern Italy. *Journal of the Geological Society*, <https://jgs.lyellcollection.org/content/early/2020/04/08/jgs2020-008>
- **Cornamusini, G., Zurli, L.**, Liberato, G.P., Corti, V., Gulbranson, E.L., Perotti, M., Sandroni, S., (2023.) A lithostratigraphic reappraisal of a Permian-Triassic fluvial succession at Allan Hills (Antarctica) and implications for the terrestrial end-Permian extinction event. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 607, 111741. <https://doi.org/10.1016/j.palaeo.2023.111741>
- Demurtas, L., Fontana, D., Lugli, S., **Bruno, L.** (2024). Multi-source detrital contributions in the Po alluvial basin (northern Italy) since the Middle Pleistocene. Insights into sediment accumulation in intermediate sinks. *Basin Research*, 36(1), e12858.
- Kairouni, H., Zaghloul, M.N., **Abbassi, A.**, Micheletti, F., Fornelli, A., EL Mourabet, M., Piccoli, F., Criniti, S., Critelli, S. (2023) - Provenance and source-to-sink of lower-middle Jurassic sediments from hinterland mounts to NW-Gondwana hyper-extended passive margin (Prerif sub-domain, External Rif, Morocco): First evidence from sedimentary petrology and detrital Zircon geochronology. *Marine and Petroleum Geology*, 157, 106492.
- Liberatore, M., Gliozzi, E., **Cipollari, P., Cosentino, D.** (2023) - Holocene vertical velocity fields in the Calabrian Arc (southern Italy): new insights from uplifted sea-level markers in the Crotona Peninsula. *Quaternary Science Reviews*, 321, 108368.
- **Mancini, A., Capezzuoli, E.** (2024). Travertine depositional systems of Central Italy: Rapolano Terme and the Acque Albule Basin. An overview of geometries and lithofacies associations of the depositional setting. *Geol. F. Trips Maps*, 16, 1.3, 1-35.
- **Mancini, A. M.**, Bocci, G., Morigi, C., Gennari, R., Lozar, F., **Negri, A.** (2023). Past Analogues of Deoxygenation Events in the Mediterranean Sea: A Tool to Constrain Future Impacts. *Journal of Marine Science and Engineering*, 11(3), 562.
- **Mancini, M.**, Di Salvo, C., Giallini, S., Marini, M., Simionato, M., Caciolli, M. C., Cavinato, G. P., Moscatelli, M., Polpetta, F., Sirianni, P., Stigliano, F. (2023). The subsoil of the Colosseum and the detection of the ancient Tiber river Paleovalley (MIS 12-11) in Rome. *Journal of Mediterranean Earth Sciences*, 15. <https://doi.org/10.13133/2280-6148/18067>
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