Dr. KUMAR BATUK JOSHI

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Current Position: Assistant Professor, Central University of Himachal Pradesh, Dharamshala, Kangra, India

Areas of Interest:

My research focuses on the evolution of the Archean continental crust, with particular emphasis on TTGs, high-K granitoids (including sanukitoids), and associated supracrustal sequences. I am currently engaged in studies involving bulk-rock geochemistry and isotopic analyses to decipher the petrogenesis and tectonic settings of these ancient lithologies. Additionally, I explore the use of bulk sediments, whole-rock compositions, and detrital accessory minerals as proxies for understanding crustal evolution and conducting provenance studies across deep geological time.

Education

Ph.D.:	2015, Department of Geology, University of Delhi. Thesis: Petrological, Geochemical and U-Pb Zircon Geochronological Studies of the Bundelkhand Granitoid Complex, Central India: Constraints on Archean Crustal Evolution.
Diploma:	2008, Graduate Gemologist (G.G.), Accredited Jewelry Professional (A.J.P.), Graduate Pearls (G.P.), Gemological Institute of America.
M.Sc.:	2007, Geology, University of Delhi.
Thesis:	Geochemistry of pegmatites from Rajgarh, Ajmer District, Rajasthan.
B.Sc.:	2005, Geology (Hons), University of Delhi.

Professional Career:

March 2025-Till date:	Assistant Professor, Department of Geology, Central University of Himachal Pradesh, Dharamshala, Kangra, India
Jul 2023-Mar 2025:	Scientist D, Solid Earth Research Group (SERG), NCESS
Aug 2023-Nov 2023:	Visiting Researcher at the Museum of Natural History (LUOMUS), University of Helsinki, Finland
2019-2023:	Scientist C, Solid Earth Research Group (SERG), NCESS
2016-2019:	Scientist B, Crustal Processes Group (CrP), NCESS
2015:	Visiting Researcher, School of Earth and Environmental Sciences, University of Portsmouth, UK.
May 2015-Oct 2015:	Young Scientist, Russian Foundation of Basic Research, Institute of Geology, Karelian Research Centre, Russian Academy of Science, Petrozavodsk, Russia.
2014-2016:	Postdoctoral Fellow, Geoscience Division, Physical Research Laboratory, Ahmedabad, India.
2014:	Guest lecturer, Department of Geology, University of Delhi.
2009-2010:	Geologist, AF Colenco, Noida, India.
2008-2009:	Grader, Gemological Institute of America (GIA).

PhD Students

- Mr. Rakesh Kumar Panda: Ongoing
- Mr. Nihal Ahmad Ansari M: Ongoing

Infrastructures Developed

- Establishing and maintaining Class 10000 clean chemistry lab for clean chemistry (2020-March 2025) at NCESS.
- Procurement of Quadropole Inductively Coupled Plasma Mass Spectrometer (Q-ICPMS) at NCESS.
- Procuring, installing and maintaining Multi Collector Inductively Coupled Plasma Mass Spectrometer MC-ICPMS (2019-Oct 2024)

Honours/Awards/Fellowships

- Full Support from K.H. Renlund Foundation for research in Archean region (Lake Inari) of Northern Lapland, Finland (Aug 2023-Nov 2023).
- GeoHost Funds to attend International Geological Congress (IGC) 2020 (postponed due to Covid19), New Delhi, India.
- Postdoctoral Fellowship at Physical Research Laboratory, Ahmedabad, India (2014-2016).
- Young Scientist fellowship, Russian Foundation of Basic Research (RFBR), Russia (2015).
- Geochemical Society Travel Grant for attending Goldschmidt (2014, 2016).
- Partial support from K.H. Renlund foundation for field work in the Archean region (Lake Inari) of Northern Lapland, Finland (2014).
- Secretary of "The Changing Early Earth IGCP-SIDA 599" project for India and Asia (2012-2014).
- University Grants Commission - Senior Research Fellow (NET-SRF) at Dept. of Geology, University of Delhi (2013-2014).
- Travel support from the Vice-Chancellors fund (Delhi University) and IGCP-599 for U-Pb SIMS analytical work in Sweden (2013).
- Full support from IGCP-599 to attend IGC-2012, Brisbane, Australia (5days).
- Full support from IGCP-599 and *Åbo* Akademi University to attend Field workshop on "Pluton emplacement - in theory and praxis" in Sweden and Finland (2012).
- Partial Travel Support from Organizers of BRICKS Workshop, Johannesburg (2012).
- Full financial support from IGCP-SIDA 599 for attending the IGCP workshop in Mekrijärvi, Finland (2011).
- University Grants Commission - Junior Research Fellow (NET-JRF) at Dept. of Geology, University of Delhi (2011-2013).
- 2nd Rank in M. Sc Geology, Delhi University and Hansraj College (2007).

Training

- Factory Training on Nu Plasma 3 at Nu Instruments factory, UK, April 2023 (10 days).
- Installation and training on MC-ICPMS at NCESS, March 2019 (15 days).
- Pre-dispatch Inspection for MC-ICPMS at Nu Instruments factory Wrexham, UK, Nov 2018 (5days).
- Scientific short course on SIMS in the Earth Sciences at Helmholtz Zentrum, Potsdam (Germany), October 2013 (1 week).
- Summer course in the TIMS Laboratory of the National Facility for Isotope Geology and Geochronology at IIT Roorkee, May-June 2010 (1 month).
- Summer training at Gemological Institute of India (GII), June 2007 (1 month).

Seminars/Workshop's Conducted

Organizer of IGCP-SIDA 599 Insights to the Early Earth – Field Conference in Bundelkhand

Craton in Central India (7th March 2013 – 14th March 2013).

Sessions Proposed/Chaired

- Convener of a session on "Paleoclimate, Paleoweathering, Paleoprovenance and Machine Learning on Sediments during Late Quaternary Period" (Session no. 62) in INQUA-2023 Rome.
- Convener of a session on "Early Earth: Mantle-crust evolution in Hadean and Archean Eons" in Goldschmidt 2023, Lyon, France.
- Convener of a session on "Integrated Geosciences" in IGC 2020 (Postponed due to COVID 19).
- Convener of a session on Archean Crustal Evolution in IGCP 599 workshop held in Khajuraho, India.

Invited Talks

- "Detrital Zircons: Story from Indian Subcontinent" at the University of Turku, Turku, Finland on 8th November 2023.
- "Crustal Evolution of Peninsular India: Constraints using Detrital Geochronology" at National Institute of Oceanography (NIO), Goa on 4th October 2018.
- "Petrological, Geochemical and U-Pb Zircon Geochronological Studies of the Bundelkhand Granitoids, Central India: Constraints on Archean Crustal Evolution" at Institute of Geology, Karelian Research Centre, Petrozavodsk, Russia on 21st May 2015.
- "Broad overview of Bundelkhand Craton" at IGCP-SIDA 599 Project meeting in Brisbane Australia on 5th of Aug 2012.
- "Bundelkhand Craton and Overview" Evolving Continents-Research Community, University of Helsinki, Finland on 31st Jan 2013.
- "Characterization of the Archean-Proterozoic Bundelkhand Granitoids, Northern Indian Shield" at IGCP-SIDA 599 Project Launch Meeting and Field Workshop at Mekrijärvi, Finland in Sep 2011.

International Field Experience

- Fieldwork in Inari and Kilpisjärvi (Kola Craton), Northern Lapland, Finland, August 2023.
- Field work in Princes Elizabeth Land, Antarctica as part of the 39th Indian Scientific Expedition to Antarctica (Nov 2019 to Feb 2020).
- Pre-conference (Goldschmidt) fieldwork in south Armorican shear zone, August 2017.
- Fieldwork in Central Karelia, Vodlozero terrane, Russia, June 2015 (1 week).
- Fieldwork in Inari (Kola Craton), Northern Lapland, Finland, July 2014 (15 days).
- International Geological Workshop on "Craton Formation and Destruction" in Johannesburg, South Africa, July 2013 (1 week).
- Field course on Pluton emplacement from at Finland and Sweden, August 2012 (2 weeks).
- IGCP-SIDA 599 Project Field Workshop at Mekrijärvi, Finland, Sep 2011 (1 week).

Oceanographic Expedition

- Participated in the International Ocean Drilling program 398 from 10th Dec 2022 to 10th Feb 2023 for studying the Hellinic Arc Volcanic Field.
- Participated in ORV Sagar Kanya Oceanographic expedition from 21st Sep 2021 to 15th Oct 2021 for studying the Andaman Sea and Bay of Bengal.

Projects

- Geodynamic evolution of Archean cratons and Proterozoic mobile belts at NCESS (2020-2025).
- Russian Foundation for Basic Research (RFBR) grant "15-35-50162" in collaboration with Prof. Alexander Slabunov at Karelian Research Centre, Petrozavodsk, Russia (2015).
- Isotopic Constraints on the Evolution of Bundelkhand Granitoids, Central India with Prof. Sunil

Kumar Singh at Physical Research Laboratory, Ahmedabad, India (2014-2016).

Membership

Member, Geochemical Society

Editorial Roles

- Guest Editor, Special issue in Geochemistry journal titled "The Making of a Continent: A Journey Through Archean Granite-Greenstone Terranes" -Ongoing
- Guest Editor, Special issue in Quaternary International titled "Quaternary climate reconstruction using multiproxy approach and mathematical techniques (QCM2)" -Finalized.
- Guest Editor, Special issue in Lithosphere titled "The Interplay Between Lithosphere-Biosphere and Atmosphere During Archean-Proterozoic Transition and its Implication in the Supercontinent Assembly" -Finalized.

Publications (*Corresponding Author)

- Manga, M., Tominaga, M., Preine, J., Ronge, T.A., Beethe, S., Hübscher, C., McIntosh, I., Nomikou, P., Kutterolf, S., Druitt, T., Bernard, A., Berthod, B., Chen, H., Clark, A., DeBari, S., Fernandez-Perez, T. I., Gertisser, R., Johnston, R.M., Jones, C.K., **Joshi, K.B**., Kletetschka, G., Koukousioura, O., McCanta, M., Morris, A., Pank, K., Peccia, A., Polymenakou, P.N., Woodhouse, A., Yamamoto, Y. 2025. Low heat flow in the Anhydros Basin, Aegean Sea, recorded by deep subsurface temperatures. *Geophysical Research Letters*, *52*(13), e2025GL115919. https://doi.org/10.1029/2025GL115919
- Prajith, A., Ray, J.S., George, B.G., **Joshi, K.B**., Bhushan, R., Bhutani, R., Singh A. 2025. Effects of climate and sea level change on sedimentation in the eastern Bengal Fan during the late Quaternary. Quaternary Science Reviews, 361, 109417. https://doi.org/10.1016/j.quascirev.2025.109417
- Banerji, U.S., Bhushan, R., **Joshi, K.B***., Dhabi, A., Sudheer. A.K., Dubey, C.P., Panda, R.K., Haridas, N., Gaddam, M. 2024. Geochemical records of mudflat sediments from southern Saurashtra, Western India: implication in Holocene climate and global teleconnection. The Holocene, 34, 1-21. https://doi.org/10.1177/09596836241266398
- Gupta, R., Pandey, M., Arora, D., Pandey, A.K., Pant, N.C., **Joshi, K.B**., Kumar, P., Satyanarayanan, M. and Singh, A., 2024. Neoproterozoic crustal evolution of Indo-Australo-Antarctic Suture domain and Gamburtsev Subglacial Mountains, East Antarctica: Insights from the offshore sediments. Gondwana Research, 134, 262-284. https://doi.org/10.1016/j.gr.2024.07.008
- **Joshi. K.B**., Halla, J., Kurhila, M., Heilimo, E., 2024. Prolonged parallel chronology of distinct TTG types in the Lake Inari terrain, Arctic Fennoscandia: Implications for a stationary plume-related source. Precambrian Research, 408, 107418. https://doi.org/10.1016/j.precamres.2024.107418
- Halla, J., **Joshi, K.B**., Lehtonen, A., Heilimo, E., Kurhila, M. 2024. On the origin of Archaean TTGs by migmatization of mantle plume-related metabasalts: Insights from the Lake Inari terrain, Arctic Fennoscandia. Precambrian Research, 407, 107407. https://doi.org/10.1016/j.precamres.2024.107407
- Srivastava, D., Dubey, C.P., Banerji, U.S., **Joshi, K.B.** 2024. Application of Principal Component Analysis on geochemical data from the sedimentary environment. Journal of Earth System Science, 133, 122**.** https://doi.org/10.1007/s12040-024-02306-2
- Preine, J., Karstens, J., Hubscher, C., Druitt, T., Kutterolf, S., Nomikou, O., Manga, M., Gertisser, R., Pank, K., Beethe, S., Berthod,C., Crutchley, G., McIntosh, I., Ronge, T., Tominaga, M., Clark, A., DeBari, S., Johnston, R., Mateo, Z., Peccia, A., Jones, C., Kletetschka, G., Metcalfe, A., Bernard. A., Chen, H., Chiyonobu, S., Fernandez-Perez, T., **Joshi. K.B**., Koukousioura, O., McCanta, M., Morris, A., Polymenakou, P., Woodhouse, A., Yamamoto, Y., Wang, K.L., Lee, H.Y., Li, X., Papanikolaou, D. 2024. Hazardous explosive eruptions of a

recharging multi-cyclic island arc caldera. Nature Geoscience, 17, 323-331. https://doi.org/10.1038/s41561-024-01392-7

- Druitt, T., Kutterolf, S., Ronge, T., Hubscher, C., Nomikou, O., Preine, J., Gertisser, R., Karstens, J., Keller, J., Koukousioura, O., Manga, M., Metcalf, A., McCanta, M., McIntosh, I., Pank, K., Woodhouse, A., Beethe, S., Berthod,C., Chiyonobu, S., Chen, H., Clark, A., DeBari, S., Johnston, R., Peccia, A., Yamamoto, Y., Bernard. A., Fernandez-Perez, T., Jones, C., **Joshi. K.B**., Kletetschka, G., Li, X., Morris, A., Polymenakou,P., Tominaga, D., Papanikolaou, D. 2024. Giant offshore pumice deposit records a shallow submarine explosive eruption of ancestral Santorini. Communications Earth and Environment 5, 24. https://doi.org/10.1038/s43247-023-01171-z
- Slabunov, A., **Joshi, K.B***., Singh, S.K., Rai, V. 2024. Depositional age and formation conditions of Archean Banded Iron Formations, Bundelkhand Craton, Central India: Geochemistry, Neodymium isotopes and U-Pb Zircon Geochronology. Precambrian Research, 401, 107254. https://doi.org/10.1016/j.precamres.2023.107254
- Srivastava, T., Harris, N., Mottram, C., **Joshi, K.B**., Wanjari, N. 2024. From source to emplacement: the origin of leucogranites from the Sikkim-Darjeeling Himalayas, India. Geoscience Frontiers, 101733. https://doi.org/10.1016/j.gsf.2023.101733
- Sorcar, N., Dev, A., Mukherjee, S., **Joshi, K.B.,** Bommuju, P. 2023. Metamorphic evolution of granulites from Grovnes peninsula of Larsemann Hills, East Antarctica: Constraints from phase equilibrium modelling and geochronology. Polar Science, 100982 https://doi.org/10.1016/j.polar.2023.100982
- Hiffzurrahman, Nasipuri, P., **Joshi, K.B**., 2023. Geochemistry of Jutogh Metasediments, Lesser Himachal Himalaya, India, and their Implications in Source Area Weathering, Provenance, and Tectonic Setting during Paleoproterozoic Nuna Assembly. Journal of Geological Society of India, 99, 897-905. https://doi.org/10.1007/s12594-023-2411-0
- **Joshi, K.B.,** Banerji, U.S., Dubey*, C.P., Oliveira, E.P., 2022. Detrital Zircons in Crustal Evolution: A Perspective from the Indian Subcontinent. Lithosphere (Special 8), 30998220. https://doi.org/10.2113/2022/3099822
- **Joshi*, K.B**., Singh, S.K., Halla, J., Ahmad, T., Rai, V. K., 2022. Neodymium Isotope constraints on the origin of TTGs and High-K Granitoids in the Bundelkhand Craton, Central India: Implications for Archaean crustal evolution. Lithosphere (Special 8), 6956845. https://doi.org/10.2113/2022/6956845
- Banerji, U.S., Goswami*, V., **Joshi, K. B**., 2022. Quaternary dating and Instrumental development: An overview. Journal of Asian Earth Science X 100091. https://doi.org/10.1016/j.jaesx.2022.100091
- Shaji, J., Banerji*, U.S., Maya K., **Joshi, K.B**., Dabhi, A.J., Bharti, N., Bhushan, R., Padmalal, D., 2022. Holocene monsoon and sea-level variability from coastal lowlands of Kerala, SW India. Quaternary International, 642, 48-62. https://doi.org/10.1016/j.quaint.2022.03.005
- Prasad, M., Dubey* C.P., **Joshi, K.B**., Tiwari, V.M., 2021. Crustal density and susceptibility structure beneath Achankovil Shear zone, India. Lithosphere (Special 6), 6017801.https://doi.org/10.2113/2021/6017801
- **Joshi*, K.B**., Banerji, U.S., Dubey, C.P., Oliveira, E.P., 2021. Heavy Minerals in Provenance Studies: An Overview. Arabian Journal of Geosciences, 14, 1330 https://doi.org/10.1007/s12517-021-07687-y
- **Joshi*, K.B**. Ray, S., Ahmad, T., Satyanaranayan, M., Krishna, K., 2021. Geochemistry of meta-sediments from Neoproterozoic Shimla and Chail Group of Outer Lesser Himalaya: Implications for provenance, tectonic setting and paleo-weathering conditions. Geological Journal, 56, 9, 4451-4478 https://doi.org/10.1002/gj.4183
- Banerji*, U.S., Bhushan, R., **Joshi, K.B**., Shaji, J., Jull, A.J.T., 2021. Hydroclimate variability during the last two millennia from the mudflats of Diu Island, Western India. Geological Journal, 56, 7, 3584-3604 https://doi.org/10.1002/gj.4116
- **Joshi, K. B**., Goswami, V., Banerji*, U.S., Shankar, R., 2021. Recent Developments in Instrumentation and its application in absolute geochronology: Historical perspective and

Overview. Journal of Asian Earth Sciences, 211, 104690. https://doi.org/10.1016/j.jseaes.2021.104690

- **Joshi, K.B**., Sorcar*, N. Pant, N.C. Nandakumar, V. Ahmad, T. Tomson, J.K., 2021. Characterization of multiple episodes of melt generation from lower crust during Archaean: constrains using amphibole composition. Episodes Journal of International Geoscience, 44, 4, 443-466. https://doi.org/10.18814/epiiugs/2020/020092
- Sorcar, N. **Joshi*, K.B**. Oliveira, E.P.; Tomson, J. K. Nandakumar, V., 2021. Corrigendum to "Characterization of partial melting events in garnet-cordierite gneiss from the Kerala Khondalite Belt, India" [Geosci. Front. 11 (2020), 597-611]. https://doi.org/10.1016/j.gsf.2020.09.001
- Kumar*, C., **Joshi, K.B**., Kerr, A.C., Padhi, J.K., Shankar Mishra, S, Chandan, R., 2020. Field, petrographic and geochemical characteristics of Sullya alkaline complex in the Cauvery Shear Zone (CSZ), southern India: Implications for petrogenesis. Journal of Earth System Science, 129, 1, 1-17. https://doi.org/10.1007/s12040-020-1369-1
- Sorcar, N. **Joshi*, K.B**. Oliveira, E.P.; Tomson, J. K. Nandakumar, V., 2020. Characterization of partial melting event of garnet-cordierite gneiss from Kerala Khondalite Belt, India. Geoscience Frontiers, 11, 2, 597-611. https://doi.org/10.1016/j.gsf.2019.05.013
- Slabunov, A. Singh, V. **Joshi, K. B***. Li, X., 2017 Paleoarchean zircons from quartzites of South Bundelkhand Greenstone Supracrustal Complex:origin and implications for crustal evolution in Bundelkhand Craton, Central india. Current Science, vol 112, No. 4, 794-801. 10.18520/cs/v112/i04/794-801
- **Joshi, K. B*.,** Bhattacharjee, J., Rai, G., Halla, J., Ahmad, T., Kurhilla, M., Heilimo, E., Choudhary, A. K., 2017**.** The diversification of granitoids and plate tectonic implications at the Archaean-Proterozoic boundary in the Bundelkhand craton, Central India. In Archean Cratons: New Insights on Old Rocks (eds. J. Halla, M. Whitehouse, Z. Bagai, T. Ahmad) Geologic Society of London, Special Publication, 449, p. 123-157. https://doi.org/10.1144/SP449.8
- Ray, S. **Joshi, K.B*.** Sundarraman, S. Joshi, D. Ahmad, T., 2015. Geochemical and petrogenetic study of Proterozoic Sewariya and Govindgarh granitoids from South Delhi Fold Belt. Current Science, vol 109, No. 8, 1458-1465. 10.18520/v109/i8/1458-1465
- **Joshi, K.B*.** Ray, S. Joshi, D. Ahmad, T., 2014. Geochemistry of Pegmatites from South Delhi Fold Belt, Rajgarh, Ajmer District, Rajasthan. Current Science, vol 106, No 12, 1725-1730.
- **Joshi, K.B*.,** 2014**.** Microbes: Mini Iron Factories. Indian J Microbiol, 54(4): 483-5. 10.1099/ijs.0.061929-0

Book/ Monographs /Chapters/Edited Volumes:

- Preine, J., Crutchley, G., Hübscher, C., Manga, M., Tominaga, M., Beethe, S., McIntosh, I., Nomikou, P., Kletetschka, G., Druitt, T.H., Kutterolf, S., Ronge, T.A., Bernard, A., Berthod, C., Chen, H., Chiyonobu, S., Clark, A., DeBari, S., Fernandez-Perez, T.I., Gertisser, R., Johnston, R.M., Jones, C., **Joshi, K.B**., Koukousioura, O., Li, X., McCanta, M., Morris, A., Pank, K., Peccia, A., Polymenakou, P.N., Woodhouse, A., Yamamoto, Y., Karstens, J., Mateo, Z., Ford, J. 2025. Data report: core-seismic integration and time-depth relationships at IODP Expedition 398 Hellenic Arc Volcanic Field sites. Proceedings of the International Ocean Discovery Program Expedition reports 398(201), International Ocean Discovery Program. https://doi.org/10.14379/iodp.proc.398.201.2025
- Ronge, T.A., Kutterolf, S., Fernandez-Perez, T.I., Manga, M., Metcalfe, A., Preine, J., Tominaga, M., Woodhouse, A., Yeon, J., Druitt, T., Beethe, S., Bernard, A., Berthod, C., Chen, H., Chiyonobu, S., Clark, A., DeBari, S., Gertisser, R., Hübscher, C., Johnston, R.M., Jones, C**., Joshi, K.B.,** Kletetschka, G., Koukousioura, O., Li, X., McCanta, M., McIntosh, I., Morris, A., Nomikou, P., Pank, K., Peccia, A., Polymenakou, P.N., and Yamamoto, Y., 2024. Data report: X-ray fluorescence scanning of Sites U1591 and U1599, IODP Expedition 398, Hellenic Arc Volcanic Field. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery

Program, 398: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.398.204.2024

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- Kutterolf, S., Druitt, T.H., Ronge, T.A., Beethe, S., Bernard, A., Berthod, C., Chen, H., Chiyonobu, S., Clark, A., DeBari, S., Fernandez Perez, T.I., Gertisser, R., Hübscher, C., Johnston, R.M., Jones, C., **Joshi, K.B.,** Kletetschka, G., Koukousioura, O., Li, X., Manga, M., McCanta, M., McIntosh, I., Morris, A., Nomikou, P., Pank, K., Peccia, A., Polymenakou, P.N., Preine, J., Tominaga, M., Woodhouse, A., and Yamamoto, Y., 2024. Expedition 398 Methods. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery Program, 398: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.398.102.2024
- Druitt, T.H., Kutterolf, S., Ronge, T.A., Beethe, S., Bernard, A., Berthod, C., Chen, H., Chiyonobu, S., Clark, A., DeBari, S., Fernandez Perez, T.I., Gertisser, R., Hübscher, C., Johnston, R.M., Jones, C., **Joshi, K.B.,** Kletetschka, G., Koukousioura, O., Li, X., Manga, M., McCanta, M., McIntosh, I., Morris, A., Nomikou, P., Pank, K., Peccia, A., Polymenakou, P.N., Preine, J., Tominaga, M., Woodhouse, A., and Yamamoto, Y., 2024. Site U1589. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery Program, 398: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.398.103.2024
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