PUBLICATIONS

Dr. Giri Yellalacheruvu, PhD.

Journal Papers

- **Y, Giri**., M, Radhakrishna., Betts, P.G., Biswal, T.K. and Armit, R.J., Evidence of a Proterozoic suture along the southern part of Eastern Ghats Mobile Belt based on Geophysical data: Implications for the Nuna supercontinent. *J Earth Syst Sci* **133**, 187 (2024) https://doi.org/10.1007/s12040-024-02396-y
- **Y, Giri**., Betts, P.G., M, Radhakrishna., Mclean M, Biswal, T.K., Armit, R.J (2023). A Geophysical constrained terrane map of East Antarctica between Enderby Land and Princess Elizabeth Land. *Australian Journal of Earth Sciences*, *70*(3), 303–322. https://doi.org/10.1080/08120099.2023.2169957
- **Y, Giri**., M, Radhakrishna., Betts, P.G., Biswal, T.K. and Armit, R.J, Sumanta Kumar Sathapathy, Crustal architecture of the Eastern Ghats Mobile Belt and Tectonic Implications: Constraints from Aeromagnetic, Gravity and Geological Data, Volume 835, 2022, Tectonophysics. https://doi.org/10.1016/j.tecto.2022.229386
- Sathapathy, S.K., **Y, Giri**. & Radhakrishna, M. Evidence of lithosphere erosion in the Eastern Indian shield from multi-scale potential field modelling: geodynamic implications. Int J Earth Sci (Geol Rundsch) (2024). https://doi.org/10.1007/s00531-024-02416-8
- P.U, Naveen., Sumanta Kumar Sathapathy, **Y, Giri**, Singh A.P, M, Radhakrishna. Structure and Tectonics of the Central part of Narmada-Son Lineament based on the Interpretation of Aeromagnetic and Gravity Data. Journal of Asian Earth Sciences, https://doi.org/10.1016/j.jseaes.2023.105765.
- Sumanta Kumar Sathapathy, Munukutla Radhakrishna, Tapas Kumar Biswal, **Y, Giri**. Structure and geodynamic evolution of the lithosphere below Northwest Indian Shield: Constraints from geological, geochronological and multi-scale potential field modelling, Precambrian Research, Volume 397, 2023 https://doi.org/10.1016/j.precamres.2023.107173.
- **Y, Giri**., M, Radhakrishna., Betts, P.G., Biswal, T.K. and Armit, R.J., Sumanta Kumar Sathapathy. Is the Nagavali-Vamsadhara shear zone a crustal-scale boundary? An appraisal from potential field geophysical data interpretations. (Manuscript Under Review)
- **Y, Giri**., Betts, P.G., M, Radhakrishna., Biswal, T.K., Armit, R.J. Mclean M, Indo-Antarctic correlations during the Proterozoic supercontinent cycles: New insights from aeromagnetic interpretations. (Manuscript under preparation)

Conference Proceedings

- Tanmay Singh and **Y, Giri,** Subsurface Structure of Mahanadi Rift Basin by Using Geophysical Data: Implications on Onshore-Offshore Tectonic Linkage. AGUFM, 2024, Abstract ID: 1546798 (output of an MSc (Tech) student thesis work)
- **Y, Giri,** Southern Eastern Ghats Mobile Belt-A Geophysical perspective in the context of supercontinental reconstructions. ETES 2024, IIT (ISM) Dhanbad. (Oral Presentation)
- Sathapathy, S.K., Radhakrishna, M. and **Giri, Y.**, 2024. Multi-scale Potential Field Modelling to Delineate the Lithosphere Structure below the Eastern Indian Shield and its Tectonic Implications (No. EGU24-17947). Copernicus Meetings.

- **Y, Giri**., M, Radhakrishna., Betts, P.G., Biswal, T.K., Armit, R.J and. McLean M, A geophysically constrained crustal element map of East Antarctica between Enderby Land and Princess Elizabeth Land: Implications towards Proterozoic supercontinent amalgamations. National Conference on Polar Sciences at NCPOR Goa. 2023 NCPS2023/166. (Invited Oral Presentation)
- **Y, Giri**., Munukutla, R., Betts, P.G., Biswal, T.K., Armit, R. and Sathapathy, S.K., 2022, December. The crustal architecture of the Eastern Ghats Mobile Belt: Implications on the position of India during the Proterozoic supercontinental cycles. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. T22A-13). (International Conference)
- Sathapathy, S.K., **Y, Giri.** and Munukutla, R., 2022, December. Crustal structure below Northwest Indian Shield through constrained potential field modeling: geodynamic implications. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. T26A-03).
- Munukutla, R., **Y, Giri.** and Betts, P.G., 2022, December. a Paleo Suture at the Southern EGMB Revisited by Using the Potential Field Geophysical Data: Implications on the Proterozoic Supercontinent Amalgamations. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. T22A-06).
- **Y, Giri**., M, Radhakrishna., Betts, P.G., Biswal, T.K. and Armit, R.J., 2021. Geological structures in East Antarctica identified from geophysical potential field data analysis and their correlations with structures of EGMB, India: Implications on the supercontinent Rodinia formation and breakup. IAGA -IASPEI Joint Assembly 2021. (International Conference)
- **Y, Giri**., M, Radhakrishna., Betts, P.G., Biswal, T.K. and Armit, R.J., 2019. India's position in supercontinent Rodinia: constraints from geophysical potential field data interpretations. AGUFM, 2019, pp. T43I-0540. (International Conference)

Thesis Publications

- **Y, Giri, 2022, Ph.D. Thesis,** Geophysical signatures of craton-mobile belt interactions: determining the Neoproterozoic link between the Eastern Ghats Mobile Belt and East Antarctica, http://dx.doi.org/https://doi.org/10.26180/20155094.v1