


## LIST OF PUBLICATIONS

<b>Name:</b>	Dr. Anil K. Chaubey	
<b>Professional Position:</b>	Visiting Professor	
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<b>(i) Research Publications</b>	: 50
(National Journal: 12, International Journal: 29, Research article in Book: 8, Research papers in conference / symposia / seminar: 1)	
<b>(ii) Other Publications</b>	
Popular article in Hindi	: 03
Technical reports	: 10
<b>(iii) Abstracts in seminar/symposia</b>	: 53
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Total	:116

### a) LIST OF PUBLISHED RESEARCH PAPERS:

1. Krishna, K.S. and **Chaubey, A.K.**, 1987. Double Off-End configuration in seismic reflection surveys. **J. Assoc. Expl. Geophys.**, 8:35-40.
2. Gopala Rao, D., Bhattacharya, G.C, Subba Raju, L.V., Ramana, M.V., Subrahmanyam, V., Kamesh Raju, K.A., Ramprasad, T. and **Chaubey A.K.**, 1987. Regional marine geophysical studies of the south western continental margin of India. In: T.S.S. Rao et al. (Editors), **Contributions in Marine Sciences**, National Institute of Oceanography, Goa, 427-437.
3. Chauhan, O.S. and **Chaubey, A.K.**, 1989. Comparative studies of moment, graphic and phi measures on the sands of the east coast beaches, India. **Sed. Geol.**, 65:183-189.
4. **Chaubey, A.K.**, Krishna, K.S., Subba Raju, L.V. and Gopala Rao, D., 1990. Magnetic anomalies across the southern Central Indian Ridge: Evidence for a new transform fault. **Deep-Sea Res.**, 37:647-656.
5. Subba Raju, L.V., Krishna, K.S. and **Chaubey, A.K.**, 1991. Buried Late Pleistocene fluvial channels on the inner continental shelf off Vengurla, west coast of India. **J. Coastal Res.**, 7:509-516.
6. Gopala Rao, D., **Chaubey, A. K.** and Ramprasad, T., 1992. The Cretaceous-Tertiary sea floor off Dronning Maud Land, Antarctica. **Tectonophysics**, 205:447-452.

7. **Chaubey, A.K.**, Ramana, M.V., Sarma, K.V.L.N.S., Krishna, K.S., Murty, G.P.S., Subrahmanyam, V., Mittal, G.S. and Drolia, R.K. 1991. Marine geophysical studies over the 85°E Ridge, Bay of Bengal. In: First International seminar & exhibition on "Exploration Geophysics in Nineteen Nineties", **AEG Publication**, pp 508-515.
8. Bhattacharya, G.C., **Chaubey, A.K.**, Murty, G.P.S., Gopala Rao, D., Scherbakov, V.S., Lygin, V.A., Philipenko, A.I. and Bogomyagkov, A.P., 1992. Marine magnetic anomalies in the northeastern Arabian Sea. In: B.N. Desai (Editor), Oceanography of the Indian Ocean, **Oxford-IBH**, New Delhi, pp. 503-509.
9. Chauhan, O.S. and **Chaubey, A.K.**, 1992. Submarine physiography off the Lakshadweep Islands, Arabian Sea. In: B.N. Desai (Editor), Oceanography of the Indian Ocean, **Oxford-IBH**, New Delhi, pp. 487-491.
10. Ramana, M.V., Subrahmanyam, V., Krishna, K.S., **Chaubey, A.K.**, Sarma, K.V.L.N.S., Murty, G.P.S., Mittal, G.S. and Drolia, R.K., 1992. Marine magnetic studies in the northern Bay of Bengal, preliminary results. In: B.N. Desai (Editor), Oceanography of the Indian Ocean, **Oxford-IBH**, New Delhi, pp 519-525.
11. **Chaubey, A.K.**, Bhattacharya, G.C., Murty, G.P.S. and Desai, M., 1993. Spreading history of the Arabian Sea: Some new constraints. **Mar. Geol.**, 112:343-352.
12. Bhattacharya, G.C., Murty, G.P.S., Srinivas, K., **Chaubey, A.K.**, Sudhakar, T. and Nair, R.R., 1994. Swath bathymetric investigation of the seamounts located in the Laxmi Basin, eastern Arabian Sea. **Mar. Geodesy**, 17:169-182.
13. Gopala Rao, D., Bhattacharya, G.C., Ramana, M.V., Subrahmanyam, V., Ramprasad, T., Krishna, K.S., **Chaubey, A.K.**, Murty, G.P.S., Srinivas, K., Desai, M., Reddy, S.I., Ashalata, B., Subrahmanyam, C., Mittal, G.S., Drolia, R.K, Rai, S.N., Ghosh, S.K., Singh, R.N. and Majumdar, R., 1994. Analysis of multi-channel seismic reflection and magnetic data along 13°N latitude across the Bay of Bengal. **Mar. Geophys. Res.**, 16:225-236.
14. Ramana, M.V., Subrahmanyam, V., Krishna, K.S., **Chaubey, A.K.**, Sarma, K.V.L.N.S., Murty, G.P.S., Mittal, G.S. and Drolia, R.K., 1994. Magnetic studies in Northern Bay of Bengal. **Mar. Geophys. Res.**, 16:237-242.
15. Sarma, K.V.L.N.S., Ramana, M.V., Murty, G.P.S., Subrahmanyam, V., Krishna, K.S., **Chaubey, A.K.**, Rao, M.M.M. and Narayana, S.L., 1994. Application of Inversion Techniques on marine magnetic data, Andaman shelf. **J. Geol. Soc. India**, 44:73-75.
16. Bhattacharya, G.C., **Chaubey, A.K.**, Murty, G.P.S., Srinivas, K., Sarma, K.V.L.N.S., Subrahmanyam, V. and Krishna, K.S., 1994. Evidence for

Sea-floor spreading in the Laxmi Basin, Northeastern Arabian Basin. *Earth Planet. Sci. Lett.*, 125:211-220.

17. **Chaubey, A.K.**, Bhattacharya, G.C. and Rao, D.G., 1995. Seafloor spreading magnetic anomalies in the southeastern Arabian Sea. *Mar. Geol.*, 128:105-114.
18. Ramana, M.V., Subrahmanyam, V., **Chaubey, A.K.**, Ramprasad, T., Sarma, K.V.L.N.S., Krishna, K.S., Desa, M., Murty, G.P.S. and Subrahmanyam, C., 1997. Structure and origin of the 85°E Ridge. *J. Geophys. Res. - Solid Earth*, 102: 17995-18012.
19. **Chaubey, A.K.**, Bhattacharya, G.C., Murty, G.P.S., Srinivas, K., Ramprasad, T. and Gopala Rao, D., 1998. Early Tertiary seafloor spreading magnetic anomalies and paleo-propagators in the northern Arabian Sea. *Earth Planet. Sci. Lett.*, 154:41-52.
20. Krishna, K.S., Gopala Rao, D., Subba Raju, L.V., **Chaubey, A.K.**, Scherbakov, V.S., Pilipenko, A.I. and Radhakrishna Murthy, I.V., 1999. Paleocene on-spreading-axis hotspot volcanism along the Ninetyeast Ridge: an interaction between the Kerguelen hotspot and the Wharton spreading center. *Proc. Ind. Acad. Sci.*, 108:255-267.
21. Rastogi, A. Deka, B., Bhattacharya, G.C., Ramprasad, T., Kamesh Raju, K.A., Srinivas, K., Murty, G. P. S., **Chaubey, A.K.**, Ramana, M. V., Subrahmanyam, V., Sarma, K.V.L.N.S., Desa, M., Paropkari, A.L., Menezes, A.A.A., Murthy, V.S.N., Anthony, M.K., Subbaraju, L.V., Desa, E., Veerayya, M., 1999. Gas hydrate stability zone thickness map of Indian deep offshore areas- a GIS based approach. *Petrotech*, pp. 489-494.
22. Dyment, J., Hemond, C., Asada, M., Bassoullet, C., Benoit, M. Brias, A., **Chaubey, A.K.** and GIMNAUT Scientific Party, 2000. Deep-sea exploration of the central Indian Ridge at 19°S. *InterRidge News*, 9:29-32.
23. Bhattacharya, G.C. and **Chaubey, A.K.**, 2001. Western Indian Ocean - A glimpse of the tectonic scenario. *In: The Indian Ocean – A Perspective*, R. Sen Gupta and E. Desa (Editors), *Oxford-IBH, New Delhi*, pp. 691-729.
24. **Chaubey, A.K.**, Gopala Rao, D., Srinivas, K., Ramprasad, T., Ramana, M.V. and Subrahmanyam, V., 2002. Analyses of multichannel seismic reflection, gravity and magnetic data along a regional profile across the central-western continental margin of India. *Mar. Geol.*, 182:303-323.
25. **Chaubey, A.K.**, Dyment, J., Bhattacharya, G.C., Royer, J.-Y., Srinivas, K. and Yatheesh, V., 2002. Paleogene magnetic isochrons and paleo-propagators in the Arabian and Eastern Somali basins, Northwest Indian Ocean. *In: The Tectonic and Climatic Evolution of the Arabian Sea Region*, P.D. Cliff, D. Kroon, C. Gaedicke and J. Craig (Editors), *Geological Society, London*, Special Publications, 195: 71-85.

26. Royer, J.-Y., **Chaubey, A.K.**, Dymant, J., Bhattacharya, G.C., Srinivas, K., Yatheesh, V. and Ramprasad, T., 2002. Paleogene plate tectonic evolution of the Arabian and Eastern Somali basins. *In: The Tectonic and Climatic Evolution of the Arabian Sea Region*, P.D. Clift, D. Kroon, C. Gaedicke and J. Craig (Editors), **Geological Society, London**, Special Publications, 195: 7-23.
27. Mudholkar, A.; Rao P.S.; **Chaubey, A.K.**; Valsangkar, A.B.; Somayajulu, Y.K.; Ranade, G.H.; Raju, P.V.S.; Ambre, A.V.; Nauret, F.; and Ray D., 2003. Preliminary report of the Carlsberg Ridge Cruise. **InterRidge News**, 12:19-20.
28. Naidu, P.D.; Bhattacharya, G.C.; **Chaubey, A.K.** and Krishna, K.S., 2004. Asia Oceania Geosciences Society's First Annual Meeting - A report. **J. Geol. Soc. India**, 64(5), p. 689.
29. Ajay K.K. and **Chaubey A.K.**, 2008. Depth anomalies in the Arabian Basin, NW Indian Ocean. **Geo-Marine Letters**, 28:15-22.
30. **Chaubey A.K.**, Srinivas K., Ashalatha B. and Gopalal Rao D., 2008. Isostatic response of the Laccadive Ridge from the admittance analysis of gravity and bathymetry data. **J. Geodynamics**, 46: 10-20.
31. Pandey, D.K.; **Chaubey, A.K.**; and Rajan, S., 2008. Seismic imaging of glaciomarine sediments of Antarctica: Optimizing the acquisition parameters. **Ind. J. Mar. Sci.**, 412-18.
32. Kamesh Raju K.A., **Chaubey, A.K.**, Amarnath D. and Mudholkar A., 2008. Morphotectonics of the Carlsberg Ridge between 62°20' and 66°20'E, northwest Indian Ocean. **Mar. Geol.**, 252:120-128.
33. Graindorge, D.; Klingelhoefer, F.; Sibuet, J.C.; McNeill, L.; Henstock, T.J.; Dean, S.; Gutscher, M.A.; Dessa, J.X.; Permana, H.; Singh, H.C.; Leau, H.; White, N.; Carton, H.; Malod, J.A.; Rangin, C.; Aryawan, K.G.; **Chaubey, A.K.** et al., 2008. Impact of the lower plate structure on upper plate deformation at the NW Sumatran convergent margin from seafloor morphology. **Earth Planet. Sci. Lett.**, 275:201-210.
34. Ajay, K.K.; **Chaubey, A.K.**; Krishna, K.S.; Gopala Rao, D. and Sar, D., 2010. Seaward Dipping Reflectors along the SW Continental Margin of India: Evidence for Volcanic Passive Margin. **J. Earth Sys. Sci.**, 119, 803-813.
35. Gopala Rao, D; Paropkari, A.L.; Krishna, K.S.; **Chaubey, A.K.**, Ajay, K.K.; and Kodagali, V.N., 2010. Bathymetric Highs in the mid-slope region of the Western Continental Margin of India - Mode of origin. **Mar. Geol.**, 276, 58-70.
36. Krishna, K.S., **Chaubey, A.K.**; Gopala Rao, D. and Reddy, P.R., 2010. Seismic structure and tectonics of the continental margins of India. In: P.R.

Reddy (Editor), Seismic imaging of the Indian Continental and Oceanic crust, **Professional Books Publisher**, Hyderabad, pp. 324-420.

37. Murthy, K.S.R.; **Chaubey, A.K.** and Radhakrishna M., 2011. Guest editorial for the special issue "Tectonics of Bay of Bengal and Arabian Sea with special emphasis on coastal and marine geohazards". **Natural Hazards**, DOI 10.1007/s11069-011-9785-9.
38. Krishna, K.S.; Kamesh Raju, K.A.; Ramprasad, T.; **Chaubey, A.K.**; Dewangan, P.; Yatheesh, V.; 2016. Advances in marine geophysical studies of the Indian Ocean: Contributions from India (2010-2015) **Proc. Ind. National Sci. Acad.**, 82(3):639-652.
39. Sreejith, K.M., **Chaubey, A.K.**, Mishra, A., Kumar, S., Rajawat, A.S., 2016. Pseudofaults and associated seamounts in the conjugate Arabian and Eastern Somali basins, NW Indian Ocean – New constraints from high-resolution satellite-derived gravity data. **J. Asian Earth Sci.**, 131:1-11.
40. Mishra, A.; **Chaubey, A.K.**; Sreejith, K.M.; Kumar, S.; 2018. Crustal underplating and effective elastic plate thickness of the Laxmi Ridge, northern Arabian Sea. **Tectonophysics**, 744: 82-92.
41. Dubey, K.M.; **Chaubey, A.K.**; Mahale, V.P.; Karisiddaiah, S.M.; 2018. Buried channels provide keys to infer Quaternary stratigraphic and paleo-environmental changes: a case study from the west coast of India. **Geoscience Frontiers**, doi.org/10.1016/j.gsf.2018.09.016.
42. Dubey, K.M. and **Chaubey, A.K.**, 2018. Origin and distribution of shallow gas charged sediment on the inner continental shelf of central west coast of India. **Current Science**, 116:1410-1417.  
doi: 10.18520/cs/v116/i8/1410-1417
43. Kumar P.; Mishra A.; Kumar P.V.; Kumar, S.; Dubey K.M.; Singh, D.; **Chaubey A.K.**; 2019. Integrated Geophysical Appraisal of Crustal Structure and Tectonic Evolution of the Angria Bank, Western Continental Margin of India. **Mar. Geophys. Res.**, 1-17.
44. Kumar, P.; **Chaubey A.K.**; 2019. Extension of flood basalt on the northwestern continental margin of India. **J. Earth Sys. Sci.**, 124:81.  
<https://doi.org/10.1007/s12040-019-1089-6>.
45. Yatheesh, V.; Dymont, J.; Bhattacharya, G.C.; Royer, J.Y.; Kamesh Raju, K.A.; Ramprasad, T.; **Chaubey, A.K.**; Patriat, P.; Srinivas, K. and Choi, Y., 2019. Detailed structure and plate reconstructions of the Central Indian Ocean between 83.0 and 42.5 Ma (Chronos 34 and 20). **J. Geophys. Res. -Solid Earth**, 124:4305-4322. <https://doi.org/10.1029/2018JB016812>.
46. Chanda, K., Chakraborty, B.; Vardhana, Y.V.; Graciosa, D.; Mahanty, M.M.; Latha, G.; Fernandes, W. and **Chaubey, A.K.**, 2020. Passive acoustic metrics to understand shallow water biodiversity off Malvan area

in the west coast of India. *Ind. J. Geo Marine Sci.*, 49: 527-536.

47. Jacob, J; Pitchika, V.K.; Dubey, K.M.; Mishra. A.; Kumar, P.; Kumar, S.; Mahale, V.P. and **Chaubey, A.K.**, 2020. Tectonic appraisal of the Mid-Thane Creek of Mumbai, India: An integrated geophysical approach. *J. Earth Syst. Sci.*, 129:207. <https://doi.org/10.1007/s12040-020-01464-3>.
48. Mishra, A.; **Chaubey, A.K.**; Kumar, S.; Kumar, P.V.; Kumar, P.; Dubey, K.M., 2020. Does the Laxmi Ridge continue towards the Laccadive Ridge? New insights from an integrated geophysical study. *J. Asian Earth Sci.* 201, 104491.
49. Kumar, P. and **Chaubey, A.K.**. 2022. R'eunion plume associated flood basalt volcanism on the northwestern continental margin of India and related tectonics. *J. Asian Earth Sci.*, 237:1-18. <https://doi.org/10.1016/j.jseaes.2022.105352>.
50. Dubey, K.M.; **Chaubey, A.K.**; Gaur, A.S. and Joglekar, M.V., 2022. Evolution of Ramasetu region as a link between India and Sri Lanka during the late Pleistocene and Holocene. *Quaternary Research*, 1-11. doi:10.1017/qua.2022.41

**b) LIST OF PUBLISHED ARTICLES / ABSTRACTS (IN HINDI)**

1. **Chaubey, A.K.**, 1996. Ocean research and national language Hindi - Desirability of use of Hindi in light of CSIR vision 2001. **Hindi seminar** held at Central Mining Research Institute, Nagpur on 16 September 1996. pp. 55-61.
2. Bhattacharya, G.C., **A.K. Chaubey** and G.P.S. Murty, 1996. Legal continental shelf – a geophysical approach. **Hindi Seminar on Samudra Manthan**, held at NIO, Goa during 12-13 September 1996, Abstract, pp. 5.
3. **Chaubey, A.K.**, 2001. Hind Mahasagar me Fransisi pandubbi *Nautila* ki pratham dubbi. *Samudrica*, vol. 6-7, pp.16-17.

**c) PUBLISHED ABSTRACTS IN CONFERENCE / SYMPOSIA:**

1. Krishna, K.S. and **Chaubey, A.K.** Common Depth Point Technique, recovery shots and CDP trace gathering-a modified approach. **11th Annual Convnetion and Seminar on "Exploration Geophysics" and International Symposium on Deep Seismic Sounding Traverses organized by Association of Exploration Geophysicists (AEG)** held at Hyderabad, 1985, pp. A-42.
2. **Chaubey, A.K.**, Krishna, K.S., Subba Raju, L.V., Gopala Rao D. Magnetic anomalies across southern mid Indian Ocean Ridge: Evidence for a new

transform fault. **14<sup>th</sup> Annual Convention and Seminar on "Exploration Geophysics" organized by Association of Exploration Geophysicists (AEG)** held at Department of Geophysics, Andhra University during 17-19 November 1988, pp. A-31.

3. Bhattacharya, G.C., **Chaubey, A.K.**, Murty, G.P.S., Gopala Rao, D., Scherbakov, V.S. and Philipenko, A.I., Lygin, S. Marine magnetic anomalies in the northern Arabian Sea. **International Symposium on the Oceanography of the Indian Ocean**, held at National Institute of Oceanography, Goa, during 14-16 January, 1991, G17, pp. 46.
4. Chauhan, O.S. and **Chaubey, A.K.** Submarine physiography off Lakshadweep islands, northern Indian Ocean. **International Symposium on the Oceanography of the Indian Ocean**, held at National Institute of Oceanography, Goa, during 14-16 January, 1991, G28, pp. 52.
5. Ramana, M.V., Subrahmanyam, V., Krishna, K.S., **Chaubey, A.K.**, Sarma, K.V.L.N.S., Murty, G.P.S., Gopala Rao, D., Mittal, G.S. and Drolia, R.K. Crustal Structure across the Bay of Bengal from magnetic studies. **International Symposium on the Oceanography of the Indian Ocean**, held at National Institute of Oceanography, Goa, during 14-16 January 1991, G20, pp. 48.
6. Kara, V.I., Pilipenko, A.I., Dratcheva, E.V., Scherbakov, V.S., Gopala Rao, D., Bhattacharya, G.C., Subba Raju, L.V., Ramana, M.V., Subrahmanyam, V., **Chaubey, A.K.**, Krishna, K.S., Sarma, K.V.L.N.S. and Murty, P.S.N. Trans Indian Ocean Geotraverse Studies. **International Symposium on the Oceanography of the Indian Ocean**, held at National Institute of Oceanography, Goa, during 14-16th January, 1991, G16, pp. 46.
7. Gopala Rao, D., **Chaubey, A.K.** and Ramprasad, T. Cretaceous-Tertiary seafloor off Dronning Maud Land, Antarctica. **VI International Symposium on Antarctic Earth Sciences**, held at Tokyo, Japan, 9-13 September 1991, M31p, pp. 25.
8. **Chaubey, A.K.**, Ramana, M.V., Sarma, K.V.L.N.S., Krishna, K.S., Murty, G.P.S., Mittal, G.S. and Drolia, R.K. Marine geophysical studies over the 85°E Ridge, Bay of Bengal. **First International Seminar and Exhibition on "Exploration Geophysics in Nineteen Nineties" and 17th Annual Convention of the Association of Exploration Geophysicists (AEG)**, held at Hyderabad, India, 15-30 November 1991, vol. II, pp. 508-515.
9. Gopala Rao, D., Bhattacharya, G.C., Ramana, M.V., Subrahmanyam, V., Krishna, K.S., Murty, G.P.S., Ramprasad, T., **Chaubey, A.K.**, Srinivas, K., Murty, P.S.N., Ashalatha, B., Drolia, R.K., Ghosh, S.K., Reddy, S.I., Singh, R.N., Subrahmanyam, C. and Majumdar, R. A multi-channel seismic reflection and magnetic study (along 13°N) across the Bay of Bengal. **First International Seminar and Exhibition on "Exploration Geophysics in Nineteen Nineties" and 17th Annual Convention of the Association of**

**Exploration Geophysicists (AEG)**, held at Hyderabad, India, 15-30 November 1991, S-92, pp. 48.

10. Sarma, K.V.L.N.S., Ramana, M.V., Murty, G.P.S., Subrahmanyam, V., Krishna, K.S., **Chaubey, A.K.**, Rao, M.M.M. and Narayana, S.L. Brief study of inversion technique on marine magnetic data - Andaman Shelf. **First International Seminar and Exhibition on "Exploration Geophysics in Nineteen Nineties" and 17th Annual Convention of the Association of Exploration Geophysicists (AEG)**, held at Hyderabad, India, 15-30 November 1991, S-80, pp. 42.
11. Krishna, K.S., Gopala Rao, D., Subba Raju, L.V., **Chaubey, A.K.**, Shcherbakov, V.S., Pilipenko, A.I. and Radhakrishna Murthy, I.V. Anomalous tectonic setting of the Ninetyeast Ridge: An interaction between the Kerguelen hotspot and the Wharton spreading center. **32nd Annual Convention of the Indian Geophysical Union (IGU) and Seminar on Marine Geophysics** held at National Geophysical Research Institute, Hyderabad during 19-21 December 1995, 6, pp. 7.
12. Gopala Rao, D., Krishna, K.S., Subba Raju, L.V., Ramana, M.V., Subrahmanyam, V., **Chaubey, A.K.**, Sarma, K.V.L.N.S. and Scherbakov, V.S. The two stage evolution of the northern central Indian Ridge, Indian Ocean. **32nd Annual Convention of the Indian Geophysical Union (IGU) and Seminar on Marine Geophysics** held at National Geophysical Research Institute, Hyderabad during 19-21 December 1995, 8, pp. 9.
13. **Chaubey, A.K.**, Bhattacharya, G.C., Murty, G.P.S., Srinivas, K., Ramprasad, T. and Gopala Rao, D. Seafloor spreading magnetic anomalies in the Arabian Sea- An updated interpretation. **32nd Annual Convention of the Indian Geophysical Union (IGU) and Seminar on Marine Geophysics** held at National Geophysical Research Institute, Hyderabad during 19-21 December 1995, 17, pp. 38.
14. Gopala Rao, D., Krishna, K.S., Subba Raju, L.V., Ramana, M.V., Subrahmanyam, V., **Chaubey, A.K.**, Sarma, K.V.L.N.S. and Shcherbakov, V.S. The two stage evolution of the northern Central Indian Ridge, Indian Ocean. **32nd Annual Convention of the Indian Geophysical Union (IGU) and Seminar on Marine Geophysics** held at National Geophysical Research Institute, Hyderabad during 19-21 December 1995, pp. 9-10.
15. Bhattacharya, G.C., **Chaubey, A.K.**, Murty, G.P.S. and Srinivas, K. Seafloor spreading history of the Arabian Sea: Some new results. **International symposium on Geology and Geophysics of the Indian Ocean**, held at National Institute of Oceanography, Goa, during 21-25th October 1996, S&T03, pp. 4.
16. Bhattacharya, G.C., Srinivas, K., Murty, G.P.S., and **Chaubey, A.K.** Geophysical investigation of the seamounts in the eastern Arabian Sea – new findings from the expeditions of ORV Sagar Kanya. **National Workshop on Scientific Achievements of ORV Sagar Kanya**, held at



National Institute of Oceanography, Goa during 16-17 June 1997, G1, pp.17.

17. Ramana, M.V., Kamesh Raju, K.A., Ramaprasad, T., **Chaubey, A.K.**, Murty, G.P.S., Subrahmanyam, V., Srinivas, K., Desa, M., Sarma, K.V.L.N.S., Bhattacharya, G.C. Information Technology - application in Geophysics. **International symposium on information technology in oceanography (ITO-98)**, held at National Institute of Oceanography, Goa during 12-16 October 1998, pp. 73.
18. **Chaubey, A.K.**, Gopala Rao, D., Srinivas, K., Ramprasad, T., Ramana, M.V. and Subrahmanyam, V. Structure and tectonics of the central-western continental margin of India. **35<sup>th</sup> annual convention of the Indian Geophysical Union (IGU) and meeting on continental margins of India - evolution, processes and potentials**, held at National Institute of Oceanography, Goa during 18-20 November 1998, pp. 7-8.
19. Ramaprasad, T., **Chaubey, A.K.**, Murty, G.P.S., Srinivas, K., Kamesh Raju, K.A., Ramana, M.V., Subrahmanyam, V., Sarma, K.V.L.N.S., Desa, M., Bhattacharya, G.C., Rastogi, A. and Deka, B. Distribution of Gas Hydrate zones on the western continental margin of India - Some preliminary indicators. **35<sup>th</sup> annual convention of the Indian Geophysical Union (IGU) and meeting on continental margins of India - evolution, processes and potentials**, held at National Institute of Oceanography, Goa during 18-20 November 1998, pp. 10-11.
20. Ramprasad, T., Bhattacharya, G.C., **Chaubey, A.K.**, Srinivas, K., Murty, G.P.S., Ramana, M.V., Kamesh Raju, K.A., Desa, M., Sarma, K.V.L.N.S. and Rastogi, A. and Deka, B. Detection of bottom simulating reflections (BSR) in the regional seismic profiles across the western continental margin of India. **36<sup>th</sup> Annual convention of Indian geophysical Union and meeting on Earth system sciences in the next millennium**, 21-23 December 1999, Pondicherry.
21. Ramprasad, T., Srinivas, K., **Chaubey, A.K.**, Murty, G.P.S., Ramana, M.V., Kamesh Raju, K.A., Desa, M., Sarma, K.V.L.N.S. and Bhattacharya, G.C. Gas Hydrate, a potential source for unconventional natural gas: Results of studies on western continental margin of India. **2<sup>nd</sup> Convention of Mineralogical Society of India and National Seminar on Earth Resources**, held at Mangalore University, Mangalore during 10-11 January 2000.
22. **Chaubey, A.K.**, Dyment, J., Bhattacharya, G.C., Royer, J.-Y. and Srinivas, K. Delineation and characterization of paleo-propagators in the Arabian and conjugate Eastern Somali basins from magnetic anomaly and altimetry data. **26<sup>th</sup> Annual Convention of Association of Exploration Geophysicists and seminar on Exploration Geophysics**, held at Goa during 18-20 November 2000, pp. A3.

23. Dyment, J., Hemond, C., Asada, M., Bassoullet, C., Benoit, M. Brias, A., **Chaubey, A.K.** and GIMNAUT Scientific Party. Deep-sea exploration of the Central Indian Ridge at 19°S. **American Geophysical Union Fall meeting**, held at San Francisco, USA during 15-19 December 2000.
24. **Chaubey, A.K.**; Dyment, J.; Magofond 2 and Gimnaut scientific parties. Tiny wiggles on sea-surface, deep-tow and deep-sea submersible magnetics in the Indian Ocean. **37<sup>th</sup> Annual Convention of Indian Geophysical Union and meeting on the Earth and its climate**, 19-21 December 2000, Cochin, (Abstract, pp. 67).
25. Royer, J.-Y., **Chaubey, A.K.**, Dyment, J., Bhattacharya, G.C. and Srinivas, K. Plate tectonic evolution of the Arabian Sea and Eastern Somali Basin: from simple to complex models. Conference on "The Geologic and Climatic Evolution of the Arabian Sea Region" organized by the **Geological Society of London**, London, 5-6 April 2001.
26. Dyment, J., **Chaubey, A.K.** and Royer, J.-Y. Long-lived "superpropagators" on the Carlsberg Ridge between Chrons 26-20 (58-42 Ma). **European Union of Geosciences XI**, held at Strasbourg, France, 8-12 April 2001.
27. Bhattacharya, G.C., Dyment, J., **Chaubey, A.K.**, Royer, J.-Y., Srinivas, K., Yatheesh, V. and Ramprasad, T. Paleogene tectonic fabric and evolution of the Arabian and Eastern Somali basins, NW Indian Ocean. **American Geophysical Union Fall meeting**, held at San Francisco, USA, during 10-14 December 2001.
28. Dyment, J., **Chaubey, A.K.** and Royer, J.-Y. Long-lived "superpropagators" on the Carlsberg Ridge between Chrons 26-20 (58-42 Ma). **XI European Union of Geosciences**, held at Strasbourg, France, 8-12 April, 2001.
29. Royer, J.-Y., **Chaubey, A.K.**, Dyment, J., Bhattacharya, G.C. and Srinivas, K. Plate tectonic evolution of the Arabian Sea and Eastern Somali Basin: from simple to complex models. Conference on "The Geologic and Climatic Evolution of the Arabian Sea Region" organized by the **Geological Society of London**, London, 5-6 April, 2001.
30. Bhattacharya, G.C., **Chaubey, A.K.**, Royer, J. -Y., Dyment, J., Srinivas, K. and Ramprasad, T. Opening of the western Indian Ocean: a revised model based on a new compilation. **European Geophysical Society-American Geophysical Union-European Union of Geosciences Joint Assembly**, Nice, 06-11 April, 2003.
31. Bhattacharya, G.C., Dyment, J., **Chaubey, A.K.**, Royer, J. -Y. New results of magnetic investigation in the conjugate Arabian and eastern Somali basins – northwestern Indian Ocean. In: **CSIR Diamond Jubilee workshop**, Hyderabad, 18-19 June, 2003.

32. Dymant, J., Bhattacharya, G.C., **Chaubey, A.K.**, Royer, J. Y., Srinivas, K., and Yatheesh, V. Interaction between the Deccan-Reunion hotspot and the Central Indian Ridge. In: Adamczewska, A. and Kaczmarz, M. (Eds.). Ridge-Hotspot interaction: Recent progress and prospects for enhanced international collaboration. **Inter Ridge Symposium and Workshop**, Brest, France, 8-10 September 2003.
33. **Chaubey, A.K.**; Dymant, J.; Bhattacharya, G.C.; Royer, J.-Y.; Srinivas, K. and Yatheesh, V. Magnetic “tiny wiggles”, a tool for detailed investigations in complex tectonic environment: Example from the conjugate Arabian and Eastern Somali basins. **Joint AOGS 1<sup>st</sup> annual meeting & 2<sup>nd</sup> APHW conference**, Singapore, 5-9 July 2004.
34. Bhattacharya, G.C.; Dymant, J.; **Chaubey, A.K.**; Royer, J.-Y.; Srinivas, K. and Yatheesh, V. Evolution of the propagating ridges in the Arabian and Eastern Somali basins, NW Indian Ocean between chrons 28 to 21 (62-46 Ma). **Joint AOGS 1<sup>st</sup> annual meeting & 2<sup>nd</sup> APHW conference**, Singapore, 5-9 July 2004.
35. **Chaubey, A.K.**; Kamesh Raju, K.A.; Anoop, K.V. and Bhaskar, B.V. Segmentation and tectonics of the Carlsberg Ridge Crest between 63°50'E and 66°E, NW Indian Ocean. **InterRidge workshop** on Tectonic & Oceanic Processes along the Indian Ocean Ridge System, NIO, Goa, India, 19-21 January, 2005.
36. Anoop, K.V.; Bhaskar, B.V.; Kamesh Raju, K.A.; and **Chaubey, A.K.** Processing and presentation of multi-beam echosounder data on Carlsberg and Central Indian ridges, Indian Ocean. **InterRidge workshop** on Tectonic & Oceanic Processes along the Indian Ocean Ridge System, NIO, Goa, India, 19-21 January 2005.
37. Kamesh Raju, K.A.; **Chaubey, A.K.**, Mudholkar, A.V. and Kodagali, V.N. Carlsberg Ridge between 62°20'E and 64°30'E (NW Indian Ocean): Morphotectonic evolution since last 4 million years. **InterRidge workshop** on Tectonic & Oceanic Processes along the Indian Ocean Ridge System, NIO, Goa, India, 19–21 January 2005.
38. **Chaubey A.K.**, Kamesh Raju K.A., Bhattacharya, G.C., Dymant J. and Royer J.-Y., 2006. Asymmetric crustal accretion across the Carlsberg Ridge (NW Indian Ocean) since the Paleocene. **EOS Trans. AGU, 87 (52)**, Abstract T53B-1593.
39. Graindorge. D, Klingelhoefer F., Sibuet J., Permana H., Dessa J., Singh S., Dean S., White N., Carton H., Chauhan A., Greenroyd C.J., Royle G., Aryawan K.G, **Chaubey A.K.** and others, 2006. Detailed seafloor morphology in the epicentral region of the Great Sumatra-Andaman earthquake from the compilation of 2005-2006 French and British swath bathymetric data. **EOS Trans. AGU, 87 (52)**, Abstract U53C-05.

40. Klingelhoefer F., Dessa J., Permana H., Graindorge. D, Dean S., White N., Carton H., Singh S., Aouji O., Aryawan K.G., Begot J. Beguery L., Burchell A., **Chaubey A.K.** and others, 2006. First Results from the SAGER-OBS Deep Seismic Cruise (July/August 2006) Offshore Sumatra. *EOS Trans. AGU, 87 (52)*, Abstract U52A-05.
41. Chauhan, AP; Singh, SC; Carton, H; Hananto, ND; Klingelhoefer, F; Dessa, J; Permana, H; Graindorge, D; Dean, S; White, N; **Chaubey, AK**; Shankar, U; Galih, D; Royle, G; Aryawan, K; Laesanpura, A and Prihantono, J., 2007. Wide angle seismic refraction imaging of the Northern Sumatra Subduction Zone. *Eos Trans. AGU, 88(52)*, Fall Meet. Suppl., Abstract V31C-0558.
42. **Chaubey, A.K.** and Ajay, K.K., 2008. Structure and tectonics of western continental margin of India: implication for geological hazards. In: Workshop on natural hazards and coastal processes of Indian coast, proceedings volume, NIO Regional Centre, Visakhapatnam, pp 25-33.
43. **Chaubey A.K.**, Ajay, K.K., Krishna, K.S., Rao, D.G. and Sar, D., 2008. Structure and evolution of the southwestern continental margin of India. *EOS Trans. AGU, 89 (53)*, Fall meet. Suppl., Abstract T53G-07.
44. Ajay, K.K., **Chaubey, A.K.**, Rao, D.G., Krishna K.S. and Sar, D., 2008. Seaward dipping reflectors along the southwestern continental margin of India: Seismic evidence for ocean continent transition. **The 45<sup>th</sup> annual convention of the Indian Geophysical Union** and meeting on "Seismic hazard and crustal earthquakes: Indian scenario", held at Banaras Hindu University, Varanasi (UP), 122p.
45. Sreejith, K.M., **Chaubey, A.K.**, Akhil Mishra, Kumar, S. and Rajawat, A.S., 2015. Paleo-propagators, its tectonic elements and associated seamounts in the Arabian and conjugate eastern Somali basins - new constraints from high-resolution satellite derived gravity data. International Symposium on the Indian Ocean on 'Dynamics of the Indian Ocean: Perspective and Retrospective', held at CSIR-National Institute of Oceanography, Goa during 30 November-4 December, 2015, pp. 572.
46. **Chaubey, A.K.**, Dubey, K.M., Singh, D., Akhil Mishra. Identification and Mapping of submarine ground water discharge zone due to tidal pumping using geophysical techniques: A case study off Udupi, Karnataka. National Seminar on 'Approaches to clean and sustainable development in coastal zones of India - Present status and future need', held at CSIR-National Institute of Oceanography, Regional Centre, Mumbai during 25-26 August 2016, pp. 18.
47. Akhil Mishra and **Chaubey A.K.**, 2017. Crustal Underplating and isostasy of two major aseismic Laxmi and Laccadive ridges of the Eastern Arabian Sea. 54th Annual Convention of IGU on Recent Advances in Geophysics with Special Reference to Earthquake Seismology, held at CSIR-NGRI, Hyderabad during 4-7 December, 2017, pp. 51.

48. Akhil Mishra and **Chaubey A.K.**, 2018. Crustal structure and interrelationship of two major aseismic Laxmi and Laccadive ridges, NW Indian Ocean: Inferences from geophysical data. SCOR-InterRidge Workshop held at CSIR-National Institute of Oceanography, Goa during 14-16 November, 2018. Poster S5-PS-02.
49. Jacob, J.; Kumar, P.V.; Dubey, K.M.; Mishra, A.; Kumar, P.; Kumar, S. and **Chaubey, A.K.**, 2018. Integrated geophysical analysis for identifying tectonic elements in the Mid Thane Creek. 40th Annual Convention and Seminar on Exploration Geophysics held at Indian Institute of Technology, Powai, Mumbai during 1-3 November, 2018, Abstract - 08.
50. Kumar, P. and **Chaubey, A.K.**, 2018. Spatial distribution of flood basalt on the northwestern continental margin of India. International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR) organized by V.O. Chidambaram College, Thoothukudi, Tamilnadu, during 19-20 April, 2018, pp. 63.
51. Kumar, P. and **Chaubey, A.K.**, 2018. Plume-rift interaction in evolution of northwestern continental margin of India: Inferences from integrated interpretation of geophysical data. 40th Annual Convention and Seminar on Exploration Geophysics, 1-3 November, 2018 held at IIT Bombay, Mumbai. Abst-81.
52. Kumar, P. and **Chaubey, A.K.**, 2018. Crustal architecture of flood basalt carpeted northwestern continental margin of India. SCOR-Inter Ridge workshop, 14-16 November, 2018 held at CSIR-National Institute of Oceanography, Goa. Poster no: S4-PS-04.
53. Kumar, P. and **Chaubey A.K.**, 2018. Crustal architecture of northwestern continental margin of India: Implications for eruptive volcanism. 55 Annual Convention of Indian Geophysical Union on Changing Water Cycle & Water Resources, held at Rabindranath Tagore University, Bhopal during 5-7 December, 2018, pp. 26.

**d) Ph.D. THESIS SUPERVISED:**

1. K.K. Ajay, 2011. Seismic stratigraphy, sedimentation history and tectonics of the southwest continental margin of India, Ph.D. Thesis, Goa University, Goa, 180 pp.
2. Dubey, K.M., 2019. Late Pleistocene holocene sedimentation buried river channel morphology and seismic stratigraphy of inner continental shelf off Goa west coast of India. Ph.D. Thesis, Goa University, Goa, 158 pp.
3. Pankaj, P., 2019. Extension of flood basalt on northwestern continental margin of India. Ph.D. Thesis, Academy of Scientific and Innovative Research, Ghaziabad, 154 pp.
4. Mishra, A., 2019. Laxmi and Laccadive ridges in the Eastern Arabian Sea:

Crustal structure, tectonics and their inter-relationship. Thesis, Academy of Scientific and Innovative Research, Ghaziabad, 146 pp.

#### **e) SPONSORED RESEARCH AND CONSULTANCY PROJECT REPORTS**

1. **Acquisition of marine gravity data off shore west coast of India**, 1989. Report submitted to Oil and Natural Gas Commission, pp. 1-67.
2. **Seabed surveys off Mormugao and Vengurla islands, west coast of India**, 1989. Report submitted to Naval Science and Technological Laboratory, pp. 1-31.
3. **Computation of international geomagnetic reference field from spherical harmonic expansions**, 1993. N.I.O. technical report, NIO/TR-5/93, pp.1-27.
4. **Magnetic anomaly maps of the continental shelf areas of India**, 1993. N.I.O. technical report, NIO/TR-6/93.
5. **The marine geophysical data storage format - 'WC93'**, 1995. N.I.O. technical report, NIO/TR-5/95.
6. **Bathymetric and seabed surveys in the Kharo Creek, Kachchh, Gujarat**, 1995. NIO/SP 12/95, pp.1-70.
7. **Bathymetric and seabed surveys for proposed submarine pipelines route off Pillaiperumalnallur, Nagapattinam**, 1995. pp. 1-38.
8. **Gas hydrate resource map of India**, 1997. NIO/SP/25/97, pp. 1-56.
9. **Bottom simulating reflections on the western continental margin of India (Inferred from the seismic data available with NIO), 1999**. N.I.O. Technical report no. NIO/CON-3/99, pp. 1-42. (Report submitted to Gas Authority of India Limited, New Delhi).
10. **Chaubey, A.K.**, 2007. Seismic Techniques. In: Industrial Offshore Surveys - a long "H" Course, National Institute of Oceanography, Goa, pp. 217-231.