

Detailed CV



Name: K. S. JAYAPPA

Educational Qualification: M.Sc., Ph.D.

Designation: Professor

Address for Correspondence: Dept. of Marine Geology, Mangalore University
Mangalagangothri – 574 199

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Research Areas:

1. Physical, Geological and Biological Oceanography,
2. Estuarine and Coastal Processes
3. Coastal Geomorphology and Sedimentation,
4. Coastal Hazards and their Management,
5. Geostatistics, and
6. RS and GIS Applications in Earth Science Studies.

Professional Teaching Experience

- 1987-1994 - Worked as a Lecturer on Temporary basis in the Post-Graduate Department of Marine Geology, Mangalore University from July 1987 to March 1994.
- 1994-1998 - Served as a Lecturer on Regular basis in the Post-Graduate Department of Marine Geology, Mangalore University from 16th July 1994 to 16th July 1998.
- 1998-2003 - As a Senior Scale Lecturer in the Post-Graduate Department of Marine Geology, Mangalore University from 17th July 1998 to 16th July 2003.
- 17th July 2003 – 16 July 2006 - as Reader in the Post-Graduate Department of Marine Geology, Mangalore University.
- 17th July 2006 – 23 December 2009 - as an Associate Professor in the Post-Graduate Department of Marine Geology, Mangalore University.

- 24 December 2009 onwards as a Professor in the Post-Graduate Department of Marine Geology, Mangalore University.

Research Guidance (M.Phil. /Ph.D.):

Completed students' list (their CV are attached)

Sl. No.	Names of Scholars	Year of award
1.	G. T. Vijaya Kumar	2003
2.	Avinash Kumar	2012
3.	Vipin Joseph Markose	2014
4.	Deepika, B.	2015
5.	Sowmya, K.	2020
6.	Mr. Ateeth Shetty	Submitted his thesis

Ongoing Registered Students' list

Sl. No.	Name of the Student	SC/ST/ Others	Actual date of joining
1.	Mrs. Yamuna S M	SC	05.01.2013
2.	Ms. Vinaya Kumari P.	Cat - I	31-12-2014
3.	Mr. P. R. Deepak	Cat – III A	28.12.2013
4.	Harshada	Cat - I	02.02.2016
5.	Ms. Beena, S.	Others	25.01.2016
6.	Mrs. Mamatha p K	Others	27.02.2017
7.	Habtu Worku Arkew	Foreign Student	30/07/2018

Research Projects:

List of Research Projects Completed: **Completed Seven Major and Five Minor Research Projects as a Principal Investigator / Coordinator.** The details are as follows:

Sl. No.	Client / Organisation's name	Nature of project	Duration of project	Amount (Rupees in Lakhs)
1.	Ministry of Mines, Govt. of India.	Development of Field Traverses for 36 th IGC:SR018	2018 (one year)	04.50
2.	Space Appl. Centre, ISRO, Ahmedabad.	Modeling Coastal Sediment Transport and its Impact on Coastal Environment.	2013-2018 (5 years)	26.15
3.	Space Appl. Centre, ISRO, Ahmedabad.	Modeling Biogeochemical Cycles in Coastal Oceans.	2013-2018 (5 years)	44.11
4.	Board of Research in Nuclear Sciences, Mumbai	Environmental isotope investigation Pilikula Lake, Mangalore South India.	2012-2015 (3 years)	21.24
5.	Ministry of Earth Sciences, New Delhi.	Coastal Processes and Hazards in D K and Udupi Districts -, RS and GIS Techniques.	2009-2013 (5 years)	23.46
6.	ISRO, Ahmedabad	Coastal Processes and Coastal Dynamics.	2010-2013 (4 years)	20.90
7.	University Grants Commission, New Delhi	Geomorphology, Sedimentology and Neotectonics of Kali River System: Remote Sensing and GIS Approach.	2009- 2011 (3 years)	06.29
8.	MoEF, Govt. of India, New Delhi.	Integrated CZM Plan for the Karnataka – MMDP Research Project#	2006- 2009 (3 years)	15.00
9.	Department of Science & Technology, New Delhi	Impact Assessment and Generation of Coastal Zone Information System on the Coastal zone between Ullal and Kundapur, Karnataka.	2005-2008 (3 years)	09.50
10.	Dept. of Ocean Development, New Delhi	Evolution of late Quaternary Climate and Coastal Geomorphology, Eastern Arabian Sea.	2003-2005 (3 years)	20.00
11.	DST, New Delhi	Coastal geomorphology of D.K. district, west coast of India.	1991-1994 (3 years)	02.50
12.	Mangalore University	Performance of seawalls and their impact on beach erosion.	1995-997 (2 years)	00.10
Total (in Lakhs)				193.75

Professional Collaboration

International

I have research collaboration with Prof. Subba Rao V. Durvasula, University of New Mexico
12805 Avelar Creek Drive, River View, Florida, 33578, USA. E-mail: seshu35@gmail.com

National

I have research collaboration with the following Professors / Scientists:

1. Dr. Mitra, D. and A. K. Mishra, Indian Institute of Remote Sensing, Deharadun
2. Ratheesh, Ramakrishnan and A. S. Rajawat, Space Application Centre, ISRO, Ahmedabad.
3. Sri Dinesh, A. C., Director, Geological Survey of India, Mangalore.
4. Dr. N. R. Ramesh, Retd. Addl. Director General, Geological Survey of India, Bangalore
5. Dr. Avinash Kumar and Babula Jena, National Centre for Antarctic Research, Goa
6. Dr. Vethamony, P., National Institute of Oceanography, Goa.
7. Prof. A.C. Narayana, Central University of Hyderabad.

Research Journal Publications

International:

1. ATEETH SHETTY and K S JAYAPPA (2020). Seasonal variation in longshore sediment transport rate and its impact on sediment budget along the wave-dominated Karnataka coast, India. *J. Earth Syst. Sci.* 129:234, <https://doi.org/10.1007/s12040-020-01504-y>.
2. VINAYA KUMARI, P., K. S. JAYAPPA, SUJITHA THOMAS and ANURAG GUPTA (2020). Decadal variations of sea surface temperature in the eastern Arabian Sea and its impacts on the net primary productivity, *Spat. Inf. Res.*, DOI 10.1007/s41324-020-00340-y, ISSN 2366-3286.
3. ATEETH SHETTY, **K. S. JAYAPPA**, RATHEESH RAMAKRISHNAN and A. S. RAJAWAT (2019). Shoreline Dynamics and Vulnerability Assessment Along the Karnataka Coast, India: A Geo-Statistical Approach, *J Indian Soc Remote Sens*, 47 (7), pp. 1223–1234 DOI: 10.1007/s12524-019-00980-0 [IF: 0.869]].
4. RATHEESH, R., NANDINI RAY CHAUDHURY, PREETI RAJPUT, MOHIT ARORA, ASHWIN GUJRATI, S. V. V. ARUNKUMAR, ATEETH SHETTY, RAKESH BARAL, RAKESH PATEL, DEVANSHI JOSHI, HARSHAD PATEL, BHARAT PATHAK, **K. S. JAYAPPA**, R. N. SAMAL and A. S. RAJAWAT (2019). Coastal sediment dynamics, ecology and detection of coral reef macro algae from AVIRIS-NG, *Current Science*, vol.116, No.7, pp.1157-1165 [IF: 0.883]. (coated by 01)
5. SOWMYA K., M. DHIVYA SRI, APARNA S. BHASKAR and **K. S. JAYAPPA** (2019). Long-term coastal erosion assessment along the coast of Karnataka, west coast of India. *International Journal of Sediment Research*, vol. 34, No. 4, pp. 335-344 [IF: 1.97].(coated by 01)

6. SOWMYA K & CH. PATANJALI KUMAR and **K. S. JAYAPPA**(2018). The probabilistic tsunami hazard assessment along Karnataka Coast from Makran Subduction Zone, west coast of India, *Environ Monit Assess* vol. 190(11), pp.679 (1-13).[IF: 1.687]
7. DEEPIKA, B. and **K. S. JAYAPPA** (2017). Seasonal beach morphological changes along the coast of Udupi district, west coast of India, *J Coastal Conservation* – Springer, vol. 21, pp.545–559[IF: 1.74].
8. VIPIN JOSEPHMARKOSE and **K. S. JAYAPPA** (2016). Soil loss estimation and prioritization of sub-watersheds of Kali River basin, Karnataka, India using RUSLE and GIS", *Environ Monit Assess* - Springer 188(4), 1-16; DOI 10.1007/s10661-016-5218-2 [IF: 1.687].
9. SOWMYA, K. and **K. S. JAYAPPA** (2016). Environmental Sensitivity Mapping of the Coast of Karnataka, West Coast of India. *Ocean & Coastal Management*, 121 pp. 70-87 [IF:2.595].
10. B. DEEPIKA, KUMAR AVINASH and **K. S. JAYAPPA** (2015). Impact of estuarine processes and hydro-meteorological forcing on landform changes: A remote sensing, GIS and statistical approach. *Arab J Geosci*, vol. 8, No. 2, pp. 711-726 [IF: 1.224].
11. KUMAR AVINASH, B. DEEPIKA and **K. S. JAYAPPA** (2014). Basin Geomorphology and Drainage Morphometry Parameters Used as Indicators for Groundwater Prospect: Insight from Geographical Information System (GIS) Technique, *Journal of Earth Science*, v. 25, No. 6, p. 1018–1032 [IF 1.784] .
12. DINESH A. C., VIPIN JOSEPHMARKOSE and **JAYAPPA K. S.** (2014). Linfo – A Visual Basic Program for lineament density, frequency and intersection density analysis. *Earth Science Informatics*. vol. 7, No. 3, pp. 197–203 [IF: 1.495].
13. VIPIN JOSEPH MARKOSE, A.C. DINESH and **K. S. JAYAPPA** (2014) Quantitative analysis of morphometric parameters of Kali River basin, southern India, using bearing azimuth and drainage (bAd) calculator and GIS. *Environmental Earth Sciences*(Springer) v. 72, pp. 2887–2903 [IF:1.765].
14. KUMAR AVINASH, DEEPIKA B. and **JAYAPPA K. S.** (2013). Evolution of spit morphology: a case study using a remote sensing and statistical based approach. *J Coast Conserv.*, v. 17, No. 3, pp. 327-337 [IF:1.264].
15. DEEPIKA, B., AVINASH KUMAR and **JAYAPPA, K. S.** (2013). Shoreline change rate estimation and its forecast: remote sensing, geographical information system and statistics based approach. *International Journal of Environmental Science and Technology* (Springer), v. 11, Issue 2, pp. 395-416. [IF: 3.1].
16. DEEPIKA, B., AVINASH KUMAR and **JAYAPPA, K. S.** (2013). Integration of hydrological factors and demarcation of groundwater prospect zones: Insights from Remote Sensing and GIS techniques. *Environmental Earth Sciences*(Springer), v.70, pp. 1319-1338. [IF: 1.765].
17. VIPIN JOSEPH MARKOSE and **JAYAPPA, K. S.** (2012). A quantitative analysis of relative tectonic activity classes of Kali river basin, southwest coast of India, *Arab J Geosci*, 6:4729–4742. [IF: 1.224].
18. KUMAR AVINASH, BABULA JENA, VINAYA, M.S., **JAYAPPA, K.S.**, NARAYANA A.C. and GANGADHARA BHAT, H. (2012). Regionally tuned algorithm to study the seasonal variation of suspended sediment concentration using IRS-P4 Ocean Colour Monitor data. *The Egyptian Journal of Remote Sensing and Space Science*, 15, 67–81.
19. DINESH, A. C., VIPIN JOSEPH MARKOSE and **JAYAPPA, K.S.** (2012). Bearing, azimuth and drainage calculator: A new GIS supported tool for quantitative analyses of

- drainage networks and watershed parameters. *Computers & Geosciences*, 48, 67–72. [IF: 1.43].
20. AVINASH KUMAR, **JAYAPPA, K. S.** and VETHAMONY, P. (2012). Evolution of Swarna estuary and its impact on braided islands and estuarine banks, southwest coast of India. *Environmental Earth Science* (Springer), 65:835–848 [IF: 1.765].
 21. AVINASH KUMAR, **JAYAPPA, K. S.** and DEEPIKA, B. (2011). Prioritization of sub-basins based on geomorphology and morphometric analysis using remote sensing and geographic information system (GIS) techniques. *Geocarto International* (Taylor & Francis), v.26 (7): 569-592. [IF: 0.5].
 22. VIPIN JOSEPH MARKOSE and **K.S. JAYAPPA** (2011). Hypsometric analysis of Kali River Basin, Karnataka, India, using geographic information system. *Geocarto International*, (Taylor & Francis), v.26 (7): 553-568. [IF: 0.5].
 23. AVINASH KUMAR, **JAYAPPA, K. S.** and DEEPIKA, B. (2010). Application of remote sensing and geographic information system in change detection of the Netravati and Gurgur river channels, Karnataka, India. *Geocarto International* (Taylor & Francis), v. 25, No. 5, pp. 397–425. [IF: 0.5].
 24. AVINASH KUMAR, NARAYANA, A. C. and **JAYAPPA, K.S.** (2010). Shoreline changes and morphology of spits along the southern Karnataka coast, India: A remote sensing and statistics-based approach, *Geomorphology* (Elsevier). v. 120, pp. 133–152. [IF: 2.5].
 25. AVINASH KUMAR and **JAYAPPA, K. S.** (2009). Long and Short-term Shoreline Changes along Mangalore Coast, India, *International Journal of Environmental Research*, v.3, No.2, pp.177-188. ISSN 1735686-5. [IF: 1.7].
 26. AVINASH KUMAR, SERALATHAN, P. and **JAYAPPA, K. S.**(2009). Distribution of Coastal Cliffs in Kerala, India: Their Mechanisms of Failure and Related Human Engineering Response, *Environmental Geology*, (Springer), vol. 58, No. 4, pp. 815-832. ISSN 0943-0105. [IF: 1.5].
 27. JAYAPPA, K. S., MITRA, D. and MISHRA, A. K. (2006). Coastal geomorphological and land-use and land cover study of Sagar Island, Bay of Bengal, India using remotely sensed data. *International Journal of Remote Sensing*, v. 27, No. 17, pp. 3671–3682. [IF: 1.3].
 28. PRAKASH NARASIMHA, K N., RAMALINGAIAH, H., MELKA, K., KRISHNAVENI, K., PRASAD, P. S. R., KRISHNAIAH, C., **JAYAPPA, K. S.** and GANESHA, A. V. (2006). Vermiculite mineralization associated with ultramafics in Agasthyapura area, Mysore Dist., Karnataka State, India – A mineralogical study. *Acta Geodyn. Geomater*, v. 3, No. 4(144), pp. 19–31. [IF: 1.1].
 29. JAYAPPA, K. S., VIJAYA KUMAR, G. T. and SUBRAHMANYA, K. R. (2003). Influence of Coastal Structures on the Beaches of Southern Karnataka, India. *Jour. Coastal Res.*, v. 19, No. 2, pp. 389-408. [IF: 0.6].

National

1. GANESHA, A. V., KRISHNAIAH, C. and **JAYAPPA, K. S.** (2007). Mineralogical studies of laterites around Mangalore, Karnataka, India. *The Indian Mineralogist*, v. 41, pp. 76-83.
2. K. S. JAYAPPA, AVINASH KUMAR and VIJAYA KUMAR, G. T. (2006). Littoral sediment transport and textural characteristics of beach sediments along Dakshina Kannada district, Karnataka. *Jour. Indian Association of Sedimentologists*, v.25, Nos. 1 & 2, pp. 29-35. ISSN 0970-3268.
3. JAYAPPA, K. S. and VIJAYA KUMAR, G. T. (2006). Beach morphological studies in India – A review. *Journal of Geol. Society of India*. v. 68, No. 5, pp. 874-884. [IF: 0.4]. JAYAPPA, K. S. and SUBRAHMANYA, K. R. (1991). A Textural and Mineralogical Studies of the Beach Sediments between Talapady and Surathkal, Karnataka. *Jour. Geol. Soc. India*, v. 37, pp. 151-163. [IF: 0.4].
4. JAYAPPA, K. S. and VIJAYA KUMAR, G. T. (2003). Coastal Dynamics Related to Engineering Structures and Management Issues: Two Case Studies from DK District, Karnataka. *Jour. Indian Association of Sedimentologists*, v. 22, Nos. 1 & 2, pp. 233-241. ISSN 0970-3268.
5. JAYAPPA, K. S. (1996). Longshore Sediment Transport along the Mangalore Coast, West Coast of India. *Indian Jour. of Marine Sciences*, v. 25, pp. 157-159. [IF: 0.5].
6. JAYAPPA, K. S. (1995-96). Erosion along the Coastal Zone of Karnataka. *Maeer's Mit Pune Jour.*, v. 4, No. 15-16, pp. 103-112.
7. JAYAPPA, K. S. (1995-96). Coastal Protection and Defence Methods in India. *Maeer's Mit Pune Jour.*, v. 4, No. 15-16, pp. 150-155.
8. JAYAPPA, K. S. and SUBRAHMANYA, K. R. (1989). Beach morphological changes between Talapady and Surathkal, Dakshina Kannada. *Geol. Sur. Ind., Spl. Pub.* No. 24, pp. 299-306.

Books / Book chapters / Translations published

1. Coastal Environments: Problems and Perspectives (2009), K. S. Jayappa and A. C. Narayana (Eds.) - I.K. International Publishers, New Delhi (280p). ISBN: 978-81-80026-28-21.
2. Kadalateerada Janara Sankashtagalu (in Kannada, 2009), K. S. Jayappa (Ed.) - Published by Vijaya Bank Chair on Ecology and Environment, Mangalore University, 104p.

Papers/ poster presentations in Conferences / Seminars / Symposia

1. Ateeth Shetty, K.S. Jayappa, P. R. Deepak, and Ratheesh Ramakrishnan (2019). Suspended Sediment Concentration in the Case-II Waters off Southern Karnataka, India. Presented in the National Seminar on Earth Resources Conservation and Management held at Kuvempu University on 1st & 2nd July, 2019.

2. Deepak, P. R. Harshada, Jayappa, K. S. (2019). A study on variability and inter-relationship of coloured dissolved organic matter and salinity in shallow marine waters off Udupi-Dakshina Kannada districts. Presented in the National Seminar on Earth Resources Conservation and Management held at Kuvempu University on 1st & 2nd July, 2019.
3. Vinaya Kumari P., K. S. Jayappa, Sujitha Thomas, Anurag Gupta (2019). Impacts of Climate change on Net Primary productivity and Fisheries in Arabian Sea along the West Coast of India Presented at: UGC sponsored National Seminar on "Research Trends in Frontier Areas of Biological Sciences" organized by Department of Biosciences, Mangalore University on March 20th.
4. Deepak, P. R., Harshada, K.S. Jayappa (2018). Mineral Resources from the Ocean Beds, National Seminar on Strategies for Mineral Development in the Country held on 18-19th September, organized by the Department of Geology, Bangalore University. Bangalore, Abstract vol. pp.102-103.
5. Vinaya Kumari P, K S Jayappa, Sujitha Thomas (2018). Variation in primary productivity along the coastal waters off Karnataka: a study using remotely sensed data. Presented at: International conference on "Recent Vistas in Science and Technology & its Relevance to Biological Sciences" organized by Alvas College, Moodubidre on 2nd March (Best Paper Award).
6. Katihally S. JAYAPPA and Ateeth Shetty (2017). Coastal Geomorphology: Major Problems Faced by the Community along the Karnataka Coast and their Management, 9th International Conference on Geomorphology held from 6th - 11th Nov, at Vigyan Bhawan, New Delhi, Abstract vol. pp. 344-345.
7. Vinaya Kumari P., K. S. Jayappa, Subhankar Biswas (2017). Analysis of metal contamination in coastal waters off Mangalore to Malpe coast and mapping by using GIS techniques. National Conference on Science and Technology Reaching the Unreached, Indian Science Congress Association, Bangalore Chapter and Mangalore University held on 8th & 9th September at Mangalore University.
8. Harshada, Deepak P.R., K.S. Jayappa and Mini Raman (2017). Variability of Chlorophyll-a and its Response to Physico-Chemical Parameters in the Eastern Arabian Sea. National Conference on Science and Technology Reaching the Unreached, Indian Science Congress Association, Bangalore Chapter and Mangalore University held on 8th & 9th September at Mangalore University.
9. Deepak P. R., Ateeth Shetty and Jayappa K. S. (2017) Impact of non-degradable debris on environment, health and tourism potential of coastal Karnataka, India, International Conf. on "Environment, Health and Policy Nexus – (ICEHPN-2017)" held at JSS University, Mysuru on 27 & 28 July.
10. Vinaya Kumari P, Subhankar Biswas, Sareen Sheik, K S Jayappa (2017). Preliminary Studies on Physico-Chemical Parameters of Coastal Waters in Karnataka using smart GIS Techniques. International conference on "Green Chemistry & Nanotechnology Opportunities and Challenges" organized by St. Aloysius College (Autonomous) Mangalore on 27 & 28, February.
11. JAYAPPA K. S., VIPIN J. MARKOSE and M. NAGARAJU (2015). Quantitative Morphotectonic Analysis using Dem and GIS – A Case Study from South West Coast of India. 36th Asian Conference on Remote Sensing held at Manila, Philippines from 19 – 23 Oct., 2015.
12. Ateeth Shetty, K.S. Jayappa, D. Mitra (2015) Shoreline Change Analysis of Mangalore Coast and Morphometric Analysis of Netravathi-Gurupur and Mulky-Pavanje Spits. International Conference on Water Resources, Coastal and Ocean Engineering held at NITK, Surathkal, Karnataka from 12-14, March. Elsevier Aquatic Procedia, v.4, pp.182–189.
13. SARANG J. KULKARNI, PRAVEEN G. DESHBHANDARI and K.S. JAYAPPA (2015). Seasonal Variation in Textural Characteristics and Sedimentary Environments of Beach Sediments, Karnataka Coast, India. International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15) 12th - 14th March.

14. JAYAPPA, K. S. (2015). Impact of Coastal Erosion and its Management on Tourism: A Study with Reference to Karnataka Coast. Presented in the Nat. Conf. on Advances and Innovations in Tourism and Hospitality Management on 6th March.
15. Vijaya Lakasmi Naik and K. S. Jayappa (2015). Vulnerability Assessment of Tourist Beaches in D.K, West Coast of India. Presented In the Nat. Conf. on Advances and Innovations in Tourism and Hospitality Management 6th March.
16. VIPIN J. MARKOSE, A. C. DINESH and K. S. JAYAPPA (2013). An improved method for generation of stream length gradient index map using visual basic program – A study from southern India. International Geographical Union Kyoto Regional Conference, 04 – 09 August, Kyoto, Japan.
17. DINESH A. C., VIPIN JOSEPH MARKOSE and JAYAPPA K. S. (2013). Linfo – A Visual Basic Program for Analysis of Spatial Properties of Lineaments. 15th Annual Conference of the International Association for Mathematical Geosciences held at the Complutense University of Madrid, Spain from 02 – 06 September.
18. VIPIN JOSEPH MARKOSE, JAYAPPA, K. S. and NAGARAJU, M. (2013). Quantitative Analysis of Geomorphic Indices of Kaneri River Basin, Karnataka, using Geographical Information System. National Seminar on *Coastal Environments and their Management*, 22-23 January 2013, Department of Marine Geology, Mangalore University, p.88.
19. MALLIKA and JAYAPPA, K. S. (2013). Demarcation of Groundwater Potential Zones using GIS and RS Techniques: A Case Study on Hemavathy River Basin, Karnataka. National Seminar on *Coastal Environments and their Management*, 22-23 January 2013, Department of Marine Geology, Mangalore University, p.89.
20. HAJIRA SAJINI, S., JAYAPPA, K. S. and NOBLE JACOB (2013). Environmental Tracer Study to Understand the Groundwater - Surface Water Interactions in Pilikula Lake Site, Mangalore. National Seminar on *Coastal Environments and their Management*, 22-23 January 2013, Department of Marine Geology, Mangalore University, p.73.
21. DEEPIKA, B., JAYAPPA, K.S. and AVINASH KUMAR (2013). Impact of natural and anthropogenic factors on changes in shoreline and morphology of spits along Udupi coast, Karnataka. National Seminar on *Coastal Environments and their Management*, 22-23 January 2013, Department of Marine Geology, Mangalore University, pp.39-40.
22. NAGARAJU, M., K. S. JAYAPPA and A. S. Rajawat (2012). Identification of Shoreline Changes along the Karnataka Coast. XXXII INCA International Congress on Cartography for Sustainable Earth Resource Management, 11-13 October 2012, Dehradun, India.
23. VIPIN JOSEPH MARKOSE and K.S. JAYAPPA (2012). Application of SRTM DEM and GIS for Generation of Stream length Gradient Index Map – A Case Study from Kali River Basin, Karnataka, India. XXXII INCA International Congress on Cartography for Sustainable Earth Resource Management, 11-13 October 2012, Dehradun, India.
24. DINESH, A. C., VIPIN JOSEPH MARKOSE and K. S. JAYAPPA (2012). Drainage Basin Analysis of Kaneri River Basin of Karnataka, India Using Visual Basic Programme Bearing Azimuth and Drainage (bad) Calculator and GIS. XXXII INCA International Congress on Cartography for Sustainable Earth Resource Management, 11-13 October 2012, Dehradun, India.
25. JAYAPPA, K. S., VIPIN J. MARKOSE and NAGARAJU M. (2012). Identification of Geomorphic Signatures of Neotectonic Activity using DEM in the Precambrian Terrain of Western Ghats, India. XXII Congress of ISPRS 25 August to 1 September 2012, Melbourne, Australia.
26. DEEPIKA, B. and K. S. JAYAPPA (2012). Evolution of estuarine landforms and their quantification: A Remote Sensing and GIS Approach, National Seminar on 'Geospatial and Ecological Mapping of Biodiversity - Tools and Techniques, Dept. of Studies in Earth Science, Mysore, 30-31 May, 2012, p. 36.

27. JAYAPPA, K.S. and VIPIN JOSEPH MARKOSE (2012). Impact of Kali Nadi Hydro Electric Project on Dandeli – Anashi Wild Life Sanctuary, Karnataka. National Seminar on 'Geospatial and Ecological Mapping of Biodiversity - Tools and Techniques, Dept. of Studies in Earth Science, Mysore, 30-31 May, 2012, p. 64.
28. DEEPIKA, B., AVINASH KUMAR and K. S. JAYAPPA (2011). Shoreline change rate estimation and prediction of future position of Udupi coast, Karnataka using GIS technique and statistical method. National Conference on 'Coastal Dynamics and Geomorphology' and 24th Indian Institute of Geomorphologists, Dept. of Geology, Anna University, 19-22 October 2011, p.34.
29. VIPIN JOSEPH MARKOSE and JAYAPPA, K.S. (2011). Hypsometric analysis and landform evolution of Kali River basin of Northern Karnataka using Geographical Information System. National Conference on 'Coastal Dynamics and Geomorphology' and 24th Indian Institute of Geomorphologists, Dept. of Geology, Anna University, 19-22 Oct., 2011, p.81.
30. JAYAPPA, K.S. and VIPIN JOSEPH MARKOSE (2011). Geomorphic assessment of relative tectonic activity classes in the Kali river basin, west coast of India- a GIS approach. 3rd International Geography Congress, 6-8 May 2011, CWRDM, Kozikode, Kerala, India. 87p.
31. DEEPIKA, B., AVINASH KUMAR and K. S. JAYAPPA (2011). Estimation of Shoreline Changes along Mangalore Coast, National Seminar on Coastal Hazards, Resources and Management, Abstract vol., Dept. of Marine Geology, Mangalore University.
32. MALLIKA and JAYAPPA, K. S. (2011), Watershed Analyses and Management of Mudigere Taluk Chikmagalur District, Karnataka: A Remote Sensing and GIS Based Approach, National Seminar on Coastal Hazards, Resources and Management, Abstract vol., Dept. of Marine Geology, Mangalore University.
33. SANATH KUMAR, K. R., JAYAPPA, K. S. and A. S. RAJAWAT (2011), Morphodynamics of Spits and Braided Islands of Sharavathi River, Karnataka, National Seminar on Coastal Hazards, Resources and Management, 25 & 26th March 2011, Abstract vol., Dept. of Marine Geology, Mangalore University.
34. VIPIN JOSEPH MARKOSE and JAYAPPA, K.S. (2011), Rainfall Runoff Modeling in a Watershed: A study from Northern Karnataka, National Seminar on Coastal Hazards, Resources and Management, Abstract vol., Dept. of Marine Geology, Mangalore University.
35. VIPIN JOSEPH MARKOSE and K.S. JAYAPPA (2011). Morphotectonic Indices of Payaswini River basin of Northern Kerala – A GIS Approach. National Seminar on Basins of India, their Resources & Management. Abstract vol. Dept. of Earth Sciences, Annamalai University, Annamalaiagar, pp. 159-160.
36. JAYAPPA, K. S., and DEEPIKA, B. (2010). Water Resource Assessment in Dakshina Kannada and Udupi districts, Karnataka. National Conference on Geosciences and Water Resources for Sustainable Development (GWRSD). Abstract vol. Dept. of Geophysics, Andhra University, Visakhapatnam, pp.176-177.
37. JAYAPPA, K. S. (2010). Climate Change and Water Resources with reference to Coastal Karnataka, National Seminar on Climate Change and its Impact on Water Resources. Abstract vol. Centre for Earth and Space Sciences, University of Hyderabad, pp. 42-45.
38. AVINASH KUMAR, JAYAPPA, K. S., DEEPIKA, B. and Dinesh, A. C. (2010). Hydrological-drainage analysis for evaluation of groundwater potential in a watershed basin of southern Karnataka, India: A remote sensing and GIS approach. The First International Applied Geological Congress, Proc. vol. 1, Dept of Geology, Islamic Azad University, Mashhad, Iran, pp. 607-612.
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Invited / plenary talks delivered

1. Delivered a talk on ‘Sand Mining and Coastal Landforms’ in the Brain Storming Session at GSI, Mangalore as a run up to 36th IGC, 2020, on 10th February, 2016.
2. A talk on ‘Future Challenges in Coastal Zone Management’ in the one-day Workshop on ‘Role of Geosciences in the Context of National and Global Challenges’ held on 5 March, 2016 in the Dept. of Mines and Geology, Bangalore.
3. A talk on ‘Impact of Coastal Erosion Management on the Coastal Community’ was given in the “Social Science Congress” at Mangalore University on 1 Dec, 2015.
4. A talk on ‘Coastal Environment and the Oceans’ was given during the “World Environment Day” at NITK Kannada Medium High School on 5 June, 2015.
5. A talk on ‘Coastal hazards – Erosion and its Management’ was given during a Special Lecture Series on “Integrated Coastal Zone Management” Jointly organized by College of Fisheries, Mangalore and Karnataka Science & Technology Academy, Govt. of Karnataka, on 13-14, Nov., 2014.

6. Delivered a talk on 'Coastal Hazards' for III B.F.Sc. Students of Fisheries College, Mangalore on 17 Sept., 2014.
7. A talk on 'Coastal Processes and Its Impact on Coastal Zone Management' was delivered on 30 May 2013 in a one week (29 May – 3 June 2013) short course on "Integrated Coastal Zone Management" Organized by the College of Fisheries, Mangalore.
8. A talk on Climate Change and its Impact on Coastal Environment was delivered on 17 January, 2011 in a 3 - day programme on 'Awareness on Climate Change through Art' held at Manipal Institute of Communication, Manipal jointly organized by the British Council, Chennai, MIC and Association of British Scholars, Mangalore Chapter.
9. A talk on Coastal Erosion and Siltation in Navigation Channels was delivered at Expert PU College on 7th September, 2009 organized by the Association of British Scholars, Mangalore Chapter and Extension Education Wing, College of Fisheries, Mangalore.
10. Talk on Coastal Erosion and Sea level Changes was delivered at College of Fisheries, Mangalore on 10th September, 2009 organized by the Association of British Scholars, Mangalore Chapter and Extension Education Wing, College of Fisheries, Mangalore.

Impact of publications in terms of

h-index: 17

i10 index: 22

Citation index: 828

Conferences / Seminars / Workshops / Symposia organized

1. One day National Workshop on "Current Trends in Marine Geology and Geoinformatics for Higher Studies and Employment Opportunities" was conducted on 23 November, 2019 as a Co-ordinator and President, Alumni Association of the Department of Marine Geology.
2. Organized one day workshop as RUSA Nodal Officer on "The Future of Higher Education: Opportunities and Challenges" under the aegis of Karnataka State Higher Education Council, Bengaluru in association with Rashtriya Uchchatar Shiksha Abhiyana (RUSA), MHRD and Mangalore University on 18.05.2019.
3. Organized one day workshop on 30 May 2019 as Director, PM & E Board on "National Assessment and Accreditation Awareness Workshop" for the Principals / Faculty members of Colleges affiliated to Mangalore University sponsored by NAAC.
4. Organized two days' workshop on "Applications of Granulometric Parameters in Sedimentology" in the Department of Marine Geology, Mangalore University in association with Geological Survey of India, Marine and Coastal Survey Division, Mangalore on 10th & 11th April, 2019.
5. Conducted one-day workshop on 'GIS Software' in the Department of Marine Geology, Mangalore University on 24 January, 2013.
6. Conducted a two-day National Seminar on 'Coastal Environments and their Management' as a Convener in the Department of Marine Geology, Mangalore University during 22 and 23 January, 2013.

7. Conducted a two-day National Seminar on 'Coastal Hazards, Resources and Management' as a Convener in the Department of Marine Geology, Mangalore University during 25 and 26 March 2011.
8. Conducted a one-day workshop on 'Coastal Erosion and Siltation in Navigation Channels - Remedial Measures and Management' in Kannada on 26 March, 2008 to create awareness among the public/coastal community regarding the problems and impact of anthropogenic activities on estuarine siltation and coastal erosion.
9. Conducted a two-day's (24-25 July 2003) National Seminar on 'Coastal Dynamics and Role of Geoinformation with Special Reference to Indian Peninsula' as a Convener in the Department of Marine Geology, Mangalore University.

Awards / Fellowship / Recognition (Specify)(if applicable)

1. Best Teacher Award confirmed during the Teacher's day for the year 2018 instituted by the Mangalore University.
2. Prof. Satish Dhawan Young Engineers State Award for the year 2007 instituted by the Government of Karnataka.
3. Young Scientist Award by the Dept. of Science and Technology, New Delhi to encourage the young researchers from 1991-94.
4. Junior Research Fellowship by the Mangalore University, Mangalore to conduct Ph.D. work from 1984-87.

Membership of Professional Bodies

1. Fellow: Geological Society of India (F:1140, LM1406).
2. Life Member: Indian Society of Remote Sensing (L-3043)
3. Life Member: Geol., Mining and Metallurgical Society of India (No. 96).
4. Life Member: Indian Society of Geomatics, SAC, Ahmedabad (ISG_L-626).
5. Life Member: Indian Association of Sedimentologists (LM 158).
6. Life Member: Indian Institute of Geomorphologists (L.567).
7. Member: Current Science (No.13293 RES 14/1 & CURR 96/1).
8. Member: Board of Studies and Board of Examinations in Earth Science and Resource Management, and Departmental Council, Mangalore University.
9. Member, NBT Book Club- Membership No. – KAR/IND/81059
10. Member: Board of Studies in the faculty of Marine Sciences, Cochin University of Science & Technology.
11. Member: Board of Studies in Marine Science, Goa University, Goa.

Any other Information

Editorial Board Member:

1. Member of Editorial Board of "Pollution" an International Multidisciplinary Journal,

2. Member: Executive Council of Indian Society of Geomatics for the term 2017-2020

Membership of Karnataka Coastal Zone Management Authority:

- Served as a Member of Karnataka State Coastal Zone Management Authority for three years (Sept., 2013 to Sept., 2016).
- Selected for the second term by the Govt. of Karnataka as a Member of the Authority with effect from 1 March, 2017.

Referee:

Reviewed a few Research papers for the following Journals:

- a) Environmental Management (International Journal),
- b) Journal of Coastal Research (International Journal Published CERF, USA),
- c) International Journal of Environmental Research,
- d) Journal of the Geological Society of India,
- e) Current Science,
- f) Journal of Geography and Regional Planning,
- g) Journal of Oceanography and Marine Science (International Journal),
- h) Natural Hazards (International Journal),
- i) Oceanologia (International Journal),
- j) Environmental Earth Sciences (International Journal),
- k) Journal of Geographic Information System (International Journal),
- l) Ocean and Coastal Management.

Countries Visited:

1. Visited Philippines and attended the 36th Asian Conference on Remote Sensing held at Manila, from 19 – 23 October, 2015 where a research paper was presented.
2. Visited Australia and attended the XXII Congress of ISPRS held at the International Exhibition and Convention Centre, Melbourne from 25 August to 1 September 2012, where one research paper was presented.
3. Attended the 12th Canadian Coastal Conference held at Dartmouth, Nova Scotia, Canada, from November 6-9, 2005 where two research papers were presented.
4. Visited UK and attended 22nd International Union of Geodesy and Geophysics General Assembly held at Birmingham University, Birmingham, from 18-30 July 1999 where two research papers were presented.