

Curriculum vitae

VEERA NARAYANA, BALABATHINA



Personal and Contact Information:

Date of Birth: May 1, 1978

Marital Status: Married and 1 Child

Present Location: New Delhi

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Education:

- 2005 – 2008 PhD in Coastal Remote Sensing from Department of Geology, Osmania University, Hyderabad and worked at NRSC-ISRO during research tenure
- 2003 – 2006 Senior Research Fellow, Dept. of Coastal Oceanography, NRSC, ISRO
- 2000 – 2003 Junior Research Fellow (Multi-Placer Mineral Exploration), DOD
- 1998 – 2000 Andhra University Campus, College of Science & Technology
Master of Science in Marine Geology with 72% (1st rank)
- 1995 – 1998 Nagarjuna University, Affiliated College
Bachelor of Science in Maths, Physics, Geology with 79% (1st rank)
- 1993 – 1995 Inter Board of Hyderabad, Affiliated College
(10+2) in Mathematics, Physics, Chemistry about 70% (2nd rank)
- 1992 – 1993 SSC Board of Hyderabad with 72% (2nd rank).

Ph.D. Thesis title : (Awarded on January, 2009)

Nearshore Morpho-dynamics and Sediment Processes using Remote sensing data of Gahirmatha River inlets, Orissa, East coast of India.”

Post Doctoral Research:

- 2010–2012 Multi-Temporal and Hyperspectral Satellite data studies on the impact of sedimentological processes and changes in ebb-shoal morphology at port Dhamra Orissa. SERC, Young Scientist under DST, New Delhi.
- 2012–2015 Mapping and Delineation of Hazard zonation along the Indian coast, World Bank aided Research project worked as Geologist cum Remote Sensing specialist, Society of Integrated Coastal Management, Ministry of Environment Forests and Climate change, New Delhi.

Teaching and Research:

2015-2020 RS&GIS and EIA for Undergraduate, Integrated MS, and Postgraduate Master's at University level

- Full-time teaching at the University of Gondar, Ethiopia, East Africa
- Principal & Co-Principal Investigator for various Research projects of national interest

Corporate Experience:

2008 – 2009 Worked as SME at Info-Tech Pvt. Ltd. Hyderabad.

Research Interest:

1. Coastal Zone Mapping through Geospatial Technology
2. Suspended sediment transportation and chlorophyll mapping using Ocean sat, IRS-P4
3. Environment and Ecosystems: Forest cover, desertification, land degradation using high resolution- temporal satellite data and GIS Technologies
4. Disaster predictions: Forest fire, Coastal hazard zonation, Floods inundation, landslide hazards using RS&GIS technologies.
5. Atmospheric corrections, Top of atmospheric reflectances estimation, Image enhancement, image classifications techniques and Spectral Indexes for high-resolution remote sensing images over various land features.
6. Ground truthing data for satellite product validation and accuracy assessment.

Publications Profile:

Research Papers in Peer-reviewed Journals:

- 1) **(2004):** Near-shore distribution of Placer deposits along Nizampatnam, Krishna delta East coast of India.” Journal of Environmental Geo-Chemistry (ISSN 0972-0383), Vol.7. No2, pp.117-122.
- 2) **(2005):** “Tsunami and its implications on coastal habitat”, Jour. Marine Medical Society, Vol.7. No.1, pp.21-25(ISSN 0975-3605, **2589-1235**).
- 3) **(2005):** “Assessment of Pichavaram Mangrove Zonation and Degradation Processes”, Jour., of Indian Associ., of Sedimentologists Vol.24,No.1&2, pp.99-104 (ISSN **0970-3268**).
- 4) **(2006):** Monitoring the degradation of the deltaic plane by human activity at central Godavari delta using remote sensing and GIS, Jour. of the Indian Academy of Geoscience, Vol. 49 No.2, p39-46.(ISSN 0379-5160).
- 5) **(2008):** “Understanding the suspended sediment dynamics in the Coastal waters of Bay of Bengal using high-resolution Ocean Colour data, Current Science, Vol.94, No.11, pp-1499-1503. (ISSN **011-3891**)

- 6) **(2009):** “Hydrodynamic Processes and Heavy Mineral Distribution along Ekakula Beach, Gahirmatha Coast, NE Bay of Bengal, Journal of Indian Association of Sedimentologists, Vol28,No1,pp.85-93(ISSN 0970-3268, E-ISSN2582-2020).
- 7) **(2009):** “ Mapping Seasonal Suspended sediments dynamics and tidal propagation in the coastal waters of the Bay of Bengal using Ocean sat-I, ocean color monitor data. Journal of Indian Association of Sedimentologists. Vol.28, No2, pp101-106 (ISSN 0970-3268).
- 8) **(2011):** “Effect of the Bathymetric Changes on Hydrodynamic processes and Morphology at the inlets of Gahirmatha coast, NE Bay of Bengal. International Journal of Earth Sciences and Engineering, Vol. 04, No.08-Spl issue, pp.56-70. (ISSN 0974-5904).
- 9) **(2011):** “Monitoring of some observations of environmental stresses from satellite data” Journal of Indian mining& Engineering.Vol.21, pp 85-89 (ISSN 00195-944).
- 10) **(2012):** “Distribution of Heavy Minerals in Nizampatnam –Lankavanidibba Coastal Science, Andhra Pradesh, East coast of India”- Journal of Geological society of India, Springer Nature Vol. 79,pp 411-418 (ISSN: 0016-7622; 2229-3574).
- 11) **K. Ravi Kumar, B. Veera Narayana, T.Ramesh (2014):** “Cerium, Thorium, and Zircon bearing minerals from Charnockites of Visakhapatnam, Eleswaram in the eastern Ghats granulites belt, southern India- International Journal of Recent Scientific Research, Vol. 5, Issue, 5, pp.921-924, (ISSN: 0976-3031).
- 12) **(2014):** “Assessing Fire Risk in Forest Ranges of Guntur District, Andhra Pradesh: Using Integrated Remote Sensing and GIS -International Journal of Science and Research (IJSR) Vol.3, issue.6, June, pp 1328-32 (ISSN: 2319-7064).
- 13) **(2015):** “Areal extent of erosion or accretion in and around the Gahirmatha coast, NW of Bay of Bengal. Int., Journal of Geo-Sciences, Scientific research, Vol.6, No.7, 705- 719 (ISSN. 2156-8359).
- 14) **(2019):** Statistical Analysis of Grain–Size Characteristics of Streambed Sediments in River Catchments of the Lake Tana Basin, Northwest Ethiopia, American Journal of Earth Sciences, 2019; 6 (1): 1-13. (ISSN: 2381-4624).
- 15) **(2019):** Integrated Remote sensing and GIS-based Universal Soil Loss Equation for soil erosion estimation in the Megech river catchment, Tana lake sub-basin, Northwestern Ethiopia, American Journal of Geographic Information System. 2019.8(4):141-157. (ISSN:2163-1131).
- 16) **(2020):** Integrated Remote sensing and GIS-based Universal Soil Loss Equation for soil erosion estimation in the Upland catchments of Tana lake sub-basin, Northwestern Ethiopia, Environmental Systems Research, Springer nature. 9:35, 1-32pp (ISSN: 2193-2697)

Chapter in Books:

- 1) Tsunami impact on Coastal habitats of India; The Indian Ocean Tsunami, Etd. Tad S. Murthy, U. Aswathanaryana and N. Nirupama, 393-405, **Taylor and**

Francis, London.(International 2006) ISBN:978-0-415-40380-1; PN Sridhar, A. Surendran, S. Jain, and **B. Veera Narayana**

- 2) Morpho-dynamics of Godavari Tidal Inlets; Monitoring and modeling Lakes and coastal environments, Ed. P.K.Mohan, XII, p.237-243, **Springer, Germany. (International 2008)** ISBN: 978-1-4020-6645-0, Sarika Jain, P. N. Sridhar, **B. Veera Narayana**, and A. Surendran.

Abstracts/Presentations in Symposia:

- 1) "Heavy mineral studies of Nizampatnam – Paresavanipalem coastal sands, East coast of India in proceedings of National conference of "Exploration of mining and processing of beach placers in India" at Tuticorin, January **2002**.
- 2) "Variation of magnetite and ilmenite with depth-A caste study from the Nizampatnam- Paresavanipalem beach East Coast of India, A.P." in National Seminar on Coastal and Offshore sedimentary basins and their resource potential held in **2002**, November at Visakhapatnam.
- 3) "Grain size and heavy mineral distribution in Nizampatnam beach East Coast of India", in "National Seminar on Coastal and Offshore sedimentary basins and their resource potential" held in **2002**, November at Visakhapatnam.
- 4) "Hydro-Dynamic and sediment interaction at Gahirmatha tidal Inlet" in National symposium on Half-century progress in oceanographic studies of North Indian Ocean since Prof. LA FOND'S contribution (HAC PO) in December **2004** Visakhapatnam.
- 5) "Morphodynamics of Coringa", International Conference on Conservation, Restoration & Management of Lakes and Coastal Wetlands, at Orissa, Nov **2004**.
- 6) "Factors controlling ebb delta emergence along the Gahirmatha coast, Orissa, East coast of India using Remote Sensing data". National symposium on Geosciences education –recent trends & challenges held at Osmania University, Hyderabad in Dec **2005**.
- 7) "Mapping Seasonal Sediment Dynamics In The Bay of Bengal Using Oceansat-Ocean Color Monitor Data" National symposium on Geochemistry of Earth resources and its bearing on their development, held at Osmania University, Hyderabad, Applied Geo-chemistry in December **2005**.
- 8) Factor controlling Suspended sediment concentration in the east and west coast of India, An international conference on Deltas, depositional system, and stratigraphic development, Borneo, pp 52. Integrated Geological Assessment for Deltas in Southeast and East Asia (DelSEA) January 13-18, 2006 University Brunei Darussalam, Brunei.
- 9) "Monitoring of some observations of environmental stresses from satellite" National seminar on Environment and sustainable development in mineral industry and solid waste management held at Vizag, 14th march **2011**.
- 10) Effect of the Bathymetric Changes on Hydrodynamic processes and Morphology at the inlets of Gahirmatha coast, NE Bay of Bengal. National seminar on development and sustainability of earth resources and environment at Rajahmundry, ANU, 12th march **2011**.
- 11) Advances in Teaching and research process. Participated at University of Gondar, Ethiopia.
- 12) Evaluation of Land degradation processes. Presented at Society for Environment and Sustainable development, New Delhi.

TRAININGS :

- Beach Placer Mineral Exploration at OSTC /DOD, Thanjavore (2000)
- Remote sensing &Gis at NRSC/ISRO, Hyderabad (2004)
- MARITIME course for Oil &Gas Exploration at OERC-Mumbai (2006)
- PG Diploma in Engineering PetroleumExploration, Annamalai University 2006
- Coastal Zone Management , NIO,GOA (2012)
- Integrated Coastal Zone Management at ASCII, Hyderabad (2013).
- Principles of RS&GIS& applications from IIT Bombay and IIRS Dehradun (online)

COMPUTER SKILLS

- GIS Software : Arc GIS 10.2
- Image processing :ERDAS Imagine 9.0, Intergraph 2014; ILWIS 3.2
- Operating Systems :Windows NT, Windows 2010, DOS,UNIX
- Programming Languages :C language (a few things)
- Statistical packages : SPSS IBM 20.0
- Graphics packages : MS Word, MS-Excel, Grapher, Golden Suffer 8.0
- GPS :Hand GPS, DGPS, RTK
- Logging software's : Geo desk, log viewer, Well works, Gews,
