

## Detailed CV



Name Dr. H.Gangadhara Bhat

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

Designation Professor

Address for Correspondence: Professor, Department of Marine Geology, Mangalore University, Mangalagangothri- 57 4 199

E-mail: gangadharrbhat@gmail.com gangadharab@yahoo.com

Phone: 9448626827

Research Areas: Geology, Geomorphology, Remote Sensing and GIS, Satellite Oceanography

Professional Teaching Experience: 26 Years

Research Guidance (M.Phil. /Ph.D.): 10

Completed students' list (with hyperlinks to their CV if available)

1. Dr. Vijayan
2. Dr. Yoganandan
3. Dr. Vinaya
4. Dr. Dinakar Shetty
5. Dr. Thomas Kutty
6. Dr. Veena Shastrimutt
7. Dr. Sarojini
8. Dr. Sibomana Alexis
9. Dr. Solomon Gunta Gutulo
10. Dr. Desalew Meseret Moges

Ongoing Registered Students' list

1. Ivy Savia Dantis
2. Poojashri
3. Bhavya
4. Narayana Sukumar
5. Rohit Tantri

6. Mrs. Kenu Getu
7. M.G. Abhishek

#### Research Projects (List) (if applicable)

##### Completed

##### a) Research Projects completed

Title of the Project	Name of the Funding Agency	Amount	Duration
1. Estimation and Modeling of Suspended sediments, Littoral Transport and coastal dynamics Along the coastal waters off Southern Karnataka coast	Indian space Research Organisation, (ISRO)	9 lakhs	2001-06
2. Integrated coastal Zone Management plan for Karnataka	Ministry of Environment and Forests (MOEF)	8 lakhs	2003-04
3. Implementation of Geo-acoustic Approach for Obtaining Seabed Properties in Shallow Water Region”	Naval Research Board New Delhi	21 lakhs	2008-11
4. Impact of sea level Fluctuations along Karnataka Coast based on remote sensing	MOES, New Delhi	27 lakhs	2009-13

#### Professional Collaboration (if applicable)

International

National

Research Journal Publications (list)

International 30

National 30

Books / Book chapters / Translations published

04

Papers / poster presentations in Conferences / Seminars / Symposia (list)

International 04

National 04

Impact of publications in terms of

h-index 08

i10 index 06

Citation index 136

Conferences / Seminars / Workshops / Symposia organized (if applicable)

Organised one Day workshop on Rain Water Harvesting/Groundwater Recharge on 30th December 2019

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

Awarded Indian National Science Academy Fellowship during 2002- 2003

Membership of Professional Bodies

- 1) Member of Geological Society of India
- 2) Member of Indian Society of Remote Sensing
- 3) Member of Indian Society of Geomatics

Any other Information

Involved in E Content Development Under Consortium for Education - UGC Program.

Developed YouTube Videos related to Remote Sensing Applications and Rain water harvesting

## **1. Research Papers**

H. Gangadhara Bhat C.Krishnaiah K.N.Chandrashekarappa and S. Mohan (2009). Monitoring short term morphological changes in and around Nethravathi-Gurupura estuary of Mangalore coast- A Geoinformatics approach. Research paper presented in the National workshop on Present and Future trends in Marine Geology and Geophysics held on 21-22<sup>nd</sup> April at Mangalore University. The same will be published in the special volume of the Journal of Earth Sciences and Engineering.

Mohandas Chadaga, Udayashankar, H.N. Ganesha, A. and Gangadhara Bhat, H. (2008). Analysis of Hydrogeological characteristics of Seetha-Swarna basin of coastal Karnataka by using Remote Sensing and GIS Techniques. International Convention on Water Resources Development and Management. P.1-6.

H. Gangadhara Bhat and K.R. Chandrashekar (2009). Karnatakadha Karavali theeradha Kandla sasyagala vyavidhya mathu avugala mahathwa- upagraha mathu bowgolika mahithi adharitha ondu adhyayana. Paper presented in the 5<sup>th</sup> Kannada vijnana sammelana held at Mangalore University during 15-17<sup>th</sup> September 2009.

M. S. Vinaya, **H. Gangadhara Bhat**, A. V. Thomaskutty, A. S. Rajawat, R. M. Dwivedi and S. R.Nayak, (2004). *Region specific modified algorithms for the retrieval of suspended particulate matter and chlorophyll from Ocean Color Monitor data*. Paper accepted for publication in GIS@Development.

**H. Gangadhara Bhat**, K. R. Subrahmanya, M. S. Vinaya and M. Dinakar Shetty, (2003). *Role of neotectonics in the evolution of Nethravathi river basin*. Abstract vol.: National Seminar on Coastal Dynamics and Role of Geoinformation with Special Reference to Indian Peninsula. Department of Marine Geology, Mangalore University Publication, p. 28.

M. S. Vinaya, **H. Gangadhara Bhat** and K. R. Subrahmanya, (2004). Comparison of In-situ and satellite based measurements of suspended particulate matter and chlorophyll concentration for the coastal waters of southern Karnataka, India. Abstract vol.: International Seminar on Georesource Management. Department of Applied Geology, Kuvempu University Publication, pp. 97-98.

M. S. Vinaya, **H. Gangadhara Bhat**, K. R. Subrahmanya and M. Dinakar Shetty, (2003). *Delineation of submerged paleo-shorelines and paleo-channels using IRS LISS III data along the southern Karnataka coast of India*. Abstract vol.: National Seminar on Coastal Dynamics and Role of Geoinformation with Special Reference to Indian Peninsula. Department of Marine Geology, Mangalore University Publication, p. 27.

M. S. Vinaya, V. Yoganandan, **H. Gangadhara Bhat** and M. Dinakar Shetty, (2003). *Spit morphodynamics of Mangalore coast – a study based on remotely sensed data*. Abstract vol.: National Seminar on Coastal Dynamics and Role of Geoinformation with Special Reference to Indian Peninsula. Department of Marine Geology, Mangalore University Publication, p. 25.

Ananda Rao, N.S., and **H. Gangadhara Bhat** (2003). Hydro-geomorphological characteristics of Nethravaathi-Gurupur river basin- A GIS database. National seminar on Coastal dynamics and role of Geoinformation with special reference to Indian Peninsula, Department of Marine Geology, Mangalore University.

**Gangadhara Bhat, H.** And Subrahmanya, K.R. (2000). Shoreline changes and evolution of the coastal zone in Southern Karnataka, India- **An analysis based on multitemporal data**. International Society of Photogrammetry and Remote Sensing (ISPRS), Amsterdam, pp.1-8.

Subrahmanya, K.R. and **Gangadhara Bhat, H.** (1997). Faults and Mass Movements in the Western Ghats scarp of the Netravati River Basin. **ICORG-97. Geographical Information Systems and Remote Sensing Applications. Allied Publishers Ltd., pp.236-240, Hyderabad.**

**Gangadhara Bhat, H.** (1995). Long-Term Shoreline Changes of Mulki-Pavanje and Nethravathi-Gurupur Estuaries, Karnataka. 1995. **Jour. Indian Soc. Remote Sensing, Vol. 23, No.3. pp. 147-153**

**Gangadhara Bhat, H.** and Subrahmanya, K.R., (1992). Paleoshorelines and Coastal processes in Dakshina Kannada, Karnataka, India: **A study based on remotely sensed data. Int. Jour. Remote Sensing, Vol. 14-17, pp. 3311- 3316.**

**H. Gangadhara Bhat , C.Krishnaiah, K.N. Chandrashekarappa, Mohan, Mavish Kumar and Sumalatha A. (2010) Monitoring morphological changes in and around Nethravathi-Gurupur5 estuary of Mangalore coast -A Geoinformatics approach.** International Journal of Earth Sciences and Engineering ISSN 0974, Vol. 03, No.95, Special Issue, September 2010, pp. 56-69.

**C.Krishnaiah, S.Mohan, H.Gangadhara Bhat and K.N.Chandrashekarappa (2010) Remote Sensing and Geographical Information System (GIS) based groundwater potential zone mapping in parts of Dakshina Kannada District.** International Journal of Earth Sciences and Engineering ISSN 0974, Vol. 03, No.95, Special Issue, September 2010, pp. 70-84.

**B. Naveenchandra, K.N. Lokesh, Usha and H.Gangadhara Bhat (2010).** Use of Remote Sensing, Geophysical data sets and Web GIS Techniques for development of groundwater information System of Udupi District International Journal of Earth Sciences and Engineering ISSN 0974, Vol. 03, No.95, Special Issue, September 2010, pp. 113-132.

V. S. Veena Devi\* and H. Gangadhara Bhat (2011) The critical analysis of various image fusion techniques for enhanced image features interpretation in remote sensing applications Archives of Applied Science Research, 2011, 3 (4):206-217 (<http://scholarsresearchlibrary.com/archive.html>) ISSN 0975-508X CODEN (USA) AASRC9 206 Scholars Research Library.

Sanjith S Anchan<sup>1</sup> , Ateeth Shetty , H Gangadhara Bhat and Mohandas Chadaga (2018) Land use and land cover change detection through spatial approach: A case study of Mangaluru Taluk, Karnataka Journal of Geomatics Vol 12 No. 2 October 2018 © Indian Society of Geomatics

Alexis Sibomana, Gangadhara Bhat, H. and 3Ngenzi, J.C. (2017) GROUNDWATER PROSPECTS IN KIRUNDO DISTRICT, NORTHERN BURUNDI: MODELING BY REMOTE SENSING AND GIS *International Journal of Information Research and Review Vol. 04, Issue, 12, pp.4938-4945,*

Alexis Sibomana, Gangadhara Bhat, H. and 3Vincent Havyarimana (2018) MORPHOMETRIC ANALYSIS OF KAGUNUZI SUB-BASIN IN KIBIRA NATIONAL PARK NORTH-WESTERN PART OF BURUNDI USING GEOSPATIAL TECHNIQUES *International Journal of Development Research Vol. 08, Issue, 02, pp.19165-19173,*

Alexis Sibomana and H. Gangadhara Bhat (2018) DRAINAGE NETWORK EXTRACTION FROM ASTER G DEM 1 ARC-SECOND RESOLUTION USING D8-MODEL FOR KAGUNUZI WATERSHED IN KIBIRA NATIONAL PARK NORTH-WESTERN PART OF BURUNDI *International Journal of Current Research in Life Sciences Vol. 07, No. 04, pp.1897-1902, April, 2018*

Moges, D., Bhat, G., & Thirvikramji, K.P: Investigation of groundwater resources in highland Ethiopia using a geospatial technology. *Modeling Earth Systems and Environment*, 2019. <https://doi.org/10.1007/s40808-019-00603-0>

Moges, D., & Bhat, G: An insight into land use and land cover changes and their impacts in Rib watershed, north-western highland Ethiopia. *Land Degrad Dev.* 2018. <https://doi.org/10.1002/ldr.3091>

Moges, D., & Bhat, Gangadhara (2017) Integration of geospatial technologies with RUSLE for analysis of land use/cover change impact on soil erosion: case study in Rib watershed, north-western highland Ethiopia. *Environmental Earth Sciences*, 2017, 76(22). <https://doi.org/10.1007/s12665-017-7109-4>

Moges, D, Uuemaa, E., & Bhat Gangadhara : Evaluating future soil erosion and conservation measures under the influence of climate and land use change in Highland Ethiopia. *Regional environmental change* (Springer), 2019, accepted paper for publication.

Moges, D., & Bhat, Gangadhara : Climate change in highland Ethiopia: Recent rainfall and drought tendencies in the Rib watershed. *Journal of Weather and Climate Extremes (ELSEVIER)*, submitted for publication

Solomon Gunta and Gangadhara Bhat (2018) Trend Analysis of Rainfall data in Wolaita Zone, Southern Regional state of Ethiopia. International Journal of Advances in Science Engineering and Technology ISBN No. 232-9009.

Solomon Gunta, Gangadhara Bhat and Busnur Manjunatha ( 2029) Seasonal to Long-Term Temperature Variability in the Southern Regional State of Ethiopia . International Journal of Advances in Science Engineering and Technology ISBN NO. 2321-9009

Solomon Gunta , Gangadhara Bhat (2019) and Busnur Manjunatha Monthly to inter inter-decadal rainfall variability of the Southern Regional sate of Ethiopia, links with el Niño-Southern Oscillation. ISBN No. 2249-4626

### **Professional presentations**

Moges, D., & Bhat, Gangadhara : Delineation of groundwater potential zones in north-western Ethiopia: A remote sensing and geographic information system approach. National Conference on Science and Technology: Reaching the unreachable, 8 - 9 Sep. 2017, Mangalore University, India

Moges, D, Bhat Gangadhara & Uuemaa, E.: Evaluating future soil erosion and conservation measures under the influence of climate and land use change in Highland Ethiopia. PhD seminar in Department of Geography, 24 Oct. 2018, Tartu University, Estonia

Moges, D., Bhat, Gangadhara., & Thirvikramji K.: Application of geospatial technologies in analysis of watershed resources. Remote sensing and GIS, 18 - 20 Aug. 2017, CED (Kerala), India

Moges, D., & Bhat, Gangadhara Land tenure systems and their implications on land use change and management in highland Ethiopia: a case of the Rib watershed. AERC Land economics and governance, 20 - 24 Jan. 2018, University of Cape Town, South Africa

Moges, D., & Bhat, Gangadhara The role of public participation in watershed resource management. YALI Regional Leadership centre, 09-13 Apr. 2017, Kenyatta University, Kenya