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Born: October 1963

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Department of Geography
University of Calcutta
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SPECIALISATION

Coastal and Fluvial Geomorphology • Natural Hazard Studies • RS & GIS

EDUCATION

PhD	University of Calcutta, Geography Department Thesis: "Sagar Island: Evolution, Landforms and Environmental Management"	1996
MSc	University of Calcutta, Geography Department First Class	1985
BSc	University of Calcutta, Presidency College First Class, Honours in Geography	1983

PRESENT & FORMER POSITIONS

2006 – Now	Professor of Geography, University of Calcutta HoD: 2013–2015; 2018–2020
2006	Professor of Geography, University of Burdwan
2000 – 2006	Reader of Geography, University of Burdwan HoD: 2003–2005
1997– 2000	Reader of Geography & Environment Management, Vidyasagar University HoD: 1998–2000
1996 – 1997	Senior Lecturer of Geography & Environment Management, Vidyasagar University
1989 – 1996	Lecturer of Geography, West Bengal Educational Service Chandernagore College: 1994–1996 Darjeeling Govt. College: 1989–1994
1988– 1989	UGC Junior Research Fellow of Geography, University of Calcutta

TEACHING-RELATED EXPERIENCE

Teach geomorphology, geotectonics, environmental geography, and geomatics — 28 years at the postgraduate level, 6½ years at the undergraduate level.

Well-conversant with workstation-based Remote Sensing, GIS, and GNSS software and their capabilities through regular use and teaching. Managed fully equipped RS/GIS laboratories at Vidyasagar and Burdwan Universities. Closely associated with RS/GIS and Sedimentology Labs of the present Department.

ADMINISTRATIVE EXPERIENCE

- Worked as the Head of the Department of Geography, Calcutta University, twice: from April 2011 to April 2013, and from August 2018 to September 2020.
- Worked as the Head of the Department of Geography, Burdwan University, between April 2002 and April 2004 and as the Coordinator of the DST-sponsored FIST programme.
- Was the Head of Department of Geography & Environment Management of Vidyasagar University between December, 1998 and March, 2000.
- Joined the Department of Geography & Environment Management of Vidyasagar University as its first faculty member and made a considerable contribution towards its development.
- Former • Convener of the PhD Research Advisory Committee (10 years), • Chairperson of the Undergraduate Board of Studies (6½ years), and • Coordinator of the DRS SAP-II programme (2 years) — at the Department of Geography, University of Calcutta.

RESEARCH-RELATED EXPERIENCE

More than 37 years' experience of field-based research in badlands and coasts of West Bengal apart from the areas affected by riverbank erosion. Worked extensively on comparative cartographic studies involving the coasts and rivers of the Ganga–Brahmaputra Delta and the Chittagong-Tripura Fold Belt.

Sponsored Research Projects

PROJECT	DURATION	AMOUNT SANCTIONED	FUNDING AGENCY
Formulation of Working Experimental Prototype for Landform, Landuse & Soil Character Extraction using Remote Sensing Data in Deltaic & Coastal Plains of West Bengal	August 2005 – October 2006 (1¼ Years)	₹ 5,46,825	DRDO (DTRL), Ministry of Defense, Gol
Remote Sensing Based Soil Moisture Estimation in Lower Deltaic West Bengal	Sept 2003 – May 2005 (1¾ Years)	₹ 3,79,500	
Generation of Digital Database on Changes in Coastline and River Courses in the Lower Deltaic West Bengal during the 20th Century	Sept 2000 – Sept 2004 (4 Years)	₹ 13,40,895	DST, Gol (NRDMS Division)
Evolution of the Nayachara Island, Hugli Estuary, West Bengal	June, 1999 – May, 2000 (1 Year)	₹ 15,000	UGC

PhD Research Supervision (Awarded: 16, Submitted 0, Working: 6)

THESIS	RESEARCHER	AWARD
The Ecology and Economics of Wetlands: A Case Study of the Bariti Beel Area, North Twenty Four Parganas, West Bengal	Madhumita Basu, University of Calcutta	February 2024
Morphological Changes and Human Encroachment in Indian Sundarban: The Post-1971 Period	Nabendu Sekhar Kar, University of Calcutta	January, 2024
Water Bodies of Kolkata Municipal Area: Changes during the Last 200 Years and Related Issues	Sreetapa Nandy, University of Calcutta	April, 2021
Changes In The Natural Freshwater Wetlands of The Indian Part of Ganga Delta: A Spatio-Temporal Analysis	Tulika Saha, University of Calcutta	January, 2021
Evolution of Drainage and Morphology of Upper Bhagirathi-Ganga Interfluvial Region of West Bengal with Special Reference to Palaeochannels	Sayantana Das, University of Calcutta	December, 2018
Mining Related Environmental Hazards in Western Part of West Bengal	Subhra Ghoshal, University of Calcutta	May, 2019
A Study on Flood Hazards and Disaster Mitigation in the Murshidabad District of West Bengal	Manoj Pant, University of Calcutta	December, 2018
Changing Course of The River Ganga in Malda District, West Bengal: Damage Assessment and Risk Zone Management	Chalantika Laha, University of Calcutta	April, 2016
Inhabited Islands of the Hugli Estuary, West Bengal: Evolution, Peopling and Environment Management	Namita Chakma, University of Calcutta	February, 2015
Coastal Resorts of West Bengal: An Environmental Appraisal	Deb Prakash Pahari, University of Burdwan	November, 2014
Flood Hazard of Murshidabad District, West Bengal: An Environmental Appraisal	Swati Mollah, University of Calcutta	October, 2014
Changes in River Courses and Natural Freshwater Wetlands in the Lower Deltaic West Bengal, India, During the Twentieth Century	Sima Bag, University of Burdwan	November, 2012
Geomorphology of Garhbeta Badlands, West Medinipur District, West Bengal	Jayanta Sen, University of Calcutta	January, 2009
Evolution of the Coastline of West Bengal, India, During the Twentieth Century	Dipanwita Mukherjee, University of Burdwan	January, 2008
Environmental Appraisal of Bank Erosion of the Ganga in Malda and Murshidabad Districts, West Bengal, India	Debasis Ghosh, University of Burdwan	January, 2008
Environmental Appraisal and Management of Hazards Induced by Vertebrates of Sundarban, West Bengal, India	Chandan Surabhi Das, Vidyasagar University	December, 2005
Physico-economic Changes in the Indian Sundarban: An Evaluation	Karabi Das, University of Calcutta	Working since May, 2016

Thesis	Researcher	Award
Holocene Evolution of the Eastern Subarnarekha Coastal Region, West Bengal and Odisha	Pritam Kumar Santra, University of Calcutta	Working since May, 2016
River Planform Change in the Northern Chittagong-Tripura Fold Belt, India and Bangladesh	Saheli Bhattacharjee, University of Calcutta	Working since May, 2018
Changes in River Courses and Coastline of the Eastern Ganga–Brahmaputra Delta, Bangladesh	Abhijit Das, University of Calcutta	Working since February, 2019
Tidal Channels of the Indian Sundarban	Sajal Mondal, University of Calcutta	Working since June, 2022
Spatio-Temporal Changes In River Courses of the Upper Ganga-Brahmaputra Meghna Delta, Bangladesh	Biyas Roy, University of Calcutta	Working since July, 2023

Research Guidance as Mentor

- UGC Dr. DS Kothari Post-Doctoral Fellowship of Dr. Subrata Jana, 2020: *Dynamics of Sedimentation in the Tide-dominated Deltaic Environment of the Indian Sundarban*
- UGC Dr. DS Kothari Post-Doctoral Fellowship of Dr. Swati Ghosh, 2018–2020: *Sea Level Rise in the Hugli Estuary: Rate of Change and its Effects on the Inhabited Islands*
- UGC Dr. DS Kothari Post-Doctoral Fellowship of Dr. Kapil Ghosh, 2016–2018: *Multi-Scale Modelling of Landslide Risk Assessment in Northern Sikkim District, Sikkim, India*
- DST-WoS Project of Dr. Aparajita Sen, 2014–2017: *Recent Hydrographic Changes of the Hugli Estuary, West Bengal and its Impact on Socioeconomic Environment*

CONSULTANCY PROJECTS

- 2021–22: Prepared a report on *Demarcation of Flood Plain Zone of the Rivers Ganga and Bhagirathi–Hugli in West Bengal* for the West Bengal Pollution Control Board for onward transmission to National Green Tribunal
- 2011–20: Undertaken 27 EIA/EMP projects on behalf of Envirotech East Pvt. Ltd., as National Accreditation Board for Education & Training (NABET)-accredited Functional Area Expert on landuse and landcover
- 2016–17: Worked as a World Bank consultant on geomorphic changes in the Sundarban, Bangladesh and India.
- 2009–10: Prepared an EIA/EMP Report on *Petrochemical Hub at Nayachar Island, West Bengal*, on behalf of Envirotech East Pvt. Ltd.

PUBLICATIONS

Books

- 2020:** Dasgupta, S., Wheeler, D., Sobhan, M.I.; Bandyopadhyay, S., Nishat, A., Paul, T. 2020. *Coping with Climate Change in the Sundarbans: Lessons from Multidisciplinary Studies*. World Bank Group, Washington, D.C.: 36p. [DOI: 10.1596/978-1-4648-1587-4 / ISBN: 978-1-4648-1587-4]
- 2015 :** Panja, S., Nag, A.K., Bandyopadhyay, S. 2015: *Living with Floods: Archaeology of a Settlement in the Lower Ganga Plains, c.600–1800 CE*. Primus Books, New Delhi: 287 p. [ISBN 978-93-84082-59]
- 2012 :** Das, C.S., Bandyopadhyay, S. 2012: *Sharing Space: Human–Animal Conflicts in Indian Sundarban*. Progressive Publishers, Kolkata: 246p. [ISBN: 978-81-8064-210-4]

Bandyopadhyay, S., Bhattacharji, M., Chaudhuri, S., Goswami, D.C., Jog, S.R., Kar, A.K. (editors) 2012: *Landforms Processes and Environment Management*. ACB Publications. Kolkata, 245p. [ISBN: 81-87500-58-1]

Articles

- 2024** : Mallik, C., Bandyopadhyay, S., 2024. 'Peopling of the Sagar Island in the Indian Sundarbans: A case of maladaptation to climate change'. In: Sarkar, A., Bandyopadhyay, N., Singh, S., Sachan, R. (eds) *Risk, Uncertainty and Maladaptation to Climate Change: Policy, Practice and Case Studies*. Springer, Singapore, pp 125–138. [DOI 10.1007/978-981-99-9474-8_7]
- 2023** : Bandyopadhyay, S., Kar, N.S., Dasgupta, S., Mukherjee, D., Das, A. 2023. 'Island area changes in the Sundarban Region of the abandoned Western Ganga–Brahmaputra–Meghna Delta, India and Bangladesh'. *Geomorphology*, Vol. 422, pp 1–36. [DOI 10.1016/j.geomorph.2022.108482]
- Das, C.S., Mandal, R.N., Bandyopadhyay, S. 2023. 'Reviewing the issues of human-carnivore conflict vis-a-vis mitigation approaches of the Indian Sundarban'. *Environmental Development*, Vol. 47, No. 4, pp 1–18. [DOI 10.1016/j.envdev.2023.100888]
- Mallik, C., Bandyopadhyay, S., Bandyopadhyay, S. 2023. 'Land scarcity and land access in a hazard-prone island: Sagar, Indian Sundarbans'. *Singapore Journal of Tropical Geography*. Vol. 44, No. 2. [DOI 10.1111/sjtg.12493]
- 2022** : Bandyopadhyay, S., Bandyopadhyay, S., Dasgupta, S., Mallik, C., Wheeler, D. 2022. 'Discounting disaster: Land markets and climate change in the Indian Sundarban'. *Ecology, Economy and Society – the INSEE Journal*, Vol. 57, No. 4, pp 1–24. [DOI 10.37773/ees.v5i2.567]
- Bhattacharjee, S., Bandyopadhyay, S., De, S.K. 2022. 'Significance of channel planform change and morphometric indices in the Buri River Basin, India and Bangladesh'. In: Bhattacharya, H.N., Bhattacharya, S., Das, B.C., Islam, A. (editors): *Himalayan Neotectonics and Channel Evolution*. Springer Nature, Cham, pp 151–174. [DOI 10.1007/978-3-030-95435-2_6]
- Dasgupta, S., Wheeler, D., Bandyopadhyay, S., Ghosh, S. Roy, U. 2022. 'Coastal dilemma: Climate change, public assistance, and population displacement'. *World Development*, Vol. 150, Article Id 105707, pp 1–14. [DOI 10.1016/j.worlddev.2021.105707]
- 2021** : Bandyopadhyay, S. 2021. 'The reclaimed Sundarban in a warming world: A short geomorphic appraisal'. In: Chakma, N., Jana, N.C., Siddique, G., Guchhait, S.K., Samanta, G., Mistri, B. (editors): *Resonance of Environment, Society and Space: Global Perception through Regional Perspective, Golden Jubilee Commemorative Volume of Department of Geography, The University of Burdwan*, La Strada Publishers, Kolkata, pp 31–45. [ISBN 978-93-88445-78-8]
- Bandyopadhyay, S., Das, S., Kar, N.S. 2021. 'Avulsion of the Brahmaputra in Bangladesh during the 18th–19th Century: A review based on cartographic and literary evidence'. *Geomorphology*, Vol. 384, pp 1–9. [DOI 10.1016/j.geomorph.2021.107696]
- Bandyopadhyay, S., Dasgupta, S., Khan, Z., Wheeler, D. 2021. 'Spatiotemporal analysis of tropical cyclone landfalls in Northern Bay of Bengal, India and Bangladesh'. *Asia-Pacific Journal of Atmospheric Sciences*, Vol. 57, No. 4, pp 799–815. [DOI 10.1007/s13143-021-00227-4]
- Das, A., Santra, P.K., Bandyopadhyay, S., 2021. 'The 2016 flood of Bihar, India: An analysis of its causes.' *Natural Hazards*, Vol. 107, pp 751–769 [DOI 10.1007/s11069-021-04604-0]

- Kar, N.S., Das, S., Bandyopadhyay, S. 2021. 'Anthropogeomorphology of the Lower Deltaic West Bengal with special reference to the Hugli River System'. In: Das, B.C., Ghosh, S., Islam, A., Roy, S. (editors): *Anthropogeomorphology of Bhagirathi-Hooghly River System in India*, CRC Press, Boca Raton, pp 83–122. [DOI 10.1201/9781003032373]
- Santra, P.K., Chakraborty, A., Mukhopadhyay, J., Bandyopadhyay, S. 2021. 'Bioturbation by crab populations vis-à-vis sediment dispersal in Sagar Island, Hugli Estuary, India', *Arabian Journal of Geosciences*, Vol. 14., No. 10. [DOI 10.1007/s12517-021-07237-6]
- 2020**: Das, S., Das, A., Kar, N.S., Bandyopadhyay, S., 2020. 'Cyclone Amphan and its impact on the Lower Deltaic West Bengal: A preliminary assessment using remote sensing sources', *Current Science*, Vol. 119, No. 8, pp 1246–1249. [https://www.currentscience.ac.in/Volumes/119/08/1246.pdf]
- Santra, P.K., Chakraborty, A., Bandyopadhyay, S. 2020. 'Reconstruction of the depositional milieu during Pleistocene-Holocene transition: A preliminary study at Eastern Subarnarekha Coastal region based on borehole samples', *Journal of Indian Geomorphology*, Vol. 8, pp 64–72. [https://indiageomorph.org/uploads/pdf/P-K-Santra-17-7-21.pdf]
- 2019**: Bandyopadhyay, S. 2019. Sundarban: A Review of Evolution and Geomorphology. World Bank Technical Report 138927, World Bank Group. Washington, D.C.: 36p. [DOI 10.13140/RG.2.2.25774.54084]
- Bandyopadhyay, S., Kar, N.S. 2019. 'An Inventory for land use land cover and landform identification from satellite standard FCC: A study in the active Ganga Delta'. In: Das, B.C., Ghosh, S., Islam, A. (editors): *Quaternary Geomorphology in India: Case Studies from the Lower Ganga Basin*. Springer Nature, pp 205–219. [DOI 10.1007/978-3-319-90427-6_11]
- Bhattacharjee, S., Chaudhuri, S., Bandyopadhyay, S. 2019. 'Coastal erosion and saltwater intrusion in Boatkhali area of Sagar island, West Bengal'. *Geographical Review of India*, Vol. 81, No. 2, pp 122–138.
- 2018**: Bandyopadhyay, S., Dasgupta, S, Khan, Z.H., Wheeler, D., 2018. 'Cyclonic storm landfalls in Bangladesh, West Bengal and Odisha, 1877–2016: A spatiotemporal analysis'. Policy Research Working Paper 8316, World Bank Group. Washington, D.C.: 25p. [DOI.org/10.1596/1813-9450-8316]
- Sen, A., Bandyopadhyay, S. 2018: 'The evolution of Balari Bar in the Hugli estuary, West Bengal, India, and its impact on navigation', *Indian Journal of Geo-Marine Sciences*, Vol. 47, No. 7, pp 1376–1382.
- 2015**: Bandyopadhyay, S., Das, S., Kar, N. 2015: 'Discussion: 'Changing river courses in the western part of the Ganga–Brahmaputra delta' by Kalyan Rudra (2014)', *Geomorphology*, 227, 87–100. [DOI 10.1016/j.geomorph.2015.02.037]
- Das, S., Kar, N.S., Bandyopadhyay, S. 2015: 'Glacial lake outburst flood at Kedarnath, Indian Himalaya: A study using digital elevation models and satellite images'. *Natural Hazards*. Vol. 77, pp 769–786. [DOI 10.1007/s11069-015-1629-6]
- Das, S., Kar, N.S., Bandyopadhyay, S. 2015: 'Dimensions of debris flow of Kedarnath disaster 2013: A study using Digital Elevation Models', *Geographical Review of India*, Vol. 77, No. 4, pp 295–309.
- Kar, N.S., Bandyopadhyay, S. 2015: 'Tropical storm Aila in Gosaba block of Indian Sundarban: Remote sensing based assessment of impact and recovery'. *Geographical Review of India*, Vol. 77, No. 1. pp 40–54.

- 2014** : Bandyopadhyay, S., Kar, N.S., Das, S., Sen, J. 2014: 'River systems and water resources of West Bengal: A review'. In: Vaidyanadhan, R. (editor): *Rejuvenation of Surface Water Resources of India: Potential, Problems and Prospects*. Geological Society of India Special Publication No. 3. p 63–84. [DOI: 10.17491/CGSI/0/V0I0/62893 / ISBN 978-93-80998-04-06]
- Bandyopadhyay, S., Kar, N.S. 2014: 'The Kedarnath disaster: In search of scientific reasoning'. *Current Science*, Vol. 107, No. 4, p 557.
- Kar, N.S., Bandyopadhyay, S. 2014: 'Rehabilitating the environmental refugees of Sundarban: A study of Jibantala colony, Sagar island, West Bengal'. In: *Horizon and Beyond: Proceedings of National Seminar in Contemporary Research in Geography*, Bhairab Ganguly College, Kolkata. pp 101–107.
- Mollah, S., Bandyopadhyay, S. 2014: 'Population-development-environment interface and flood risk in Murshidabad, West Bengal' In: Singh, M., Singh, R.B., Hassan, M.I. (editors): *Landscape Ecology and Water Management, Proceedings of IGU Rohtak Conference*, Vol. 2, Springer, Tokyo: 41–53. [DOI: 10.1007/978-4-431-54871-3_4]
- 2013** : Mollah, S, Bandyopadhyay, S. 'Significance of Rainfall in the Occurrences of Flood in Murshidabad district, West Bengal, India'. *Indian Journal of Spatial Science*, Vol. 4, No. 2. pp. 19– 24.
- 2012** : Chakrabarty, A., Chaudhuri, S., Bandyopadhyay, S. 2012: 'Spatial variation in crab burrow characteristics and its relation to beach energetics – A case study of Gangasagar beach, West Bengal'. In: Bandyopadhyay, S., Bhattacharji, M., Chaudhuri, S., Goswami, D.C., Jog, S.R., Kar, A.K. (editors): *Landforms Processes and Environment Management*. ACB Publications. Kolkata, pp 203–222. [ISBN 81-87500-58-1]
- Chakma, N., Bandyopadhyay, S. 2012: 'Swimming against the tide: Survival in the transient islands of the Hugli estuary, West Bengal'. In Jana, N.C. (editor): *West Bengal: Geo-spatial Issues*, University of Burdwan, Bardhaman, pp 1–19. [ISBN 978-93-80813-20-1]
- Das, S., Bandyopadhyay, S. 2012: 'Degeneration of Jalangi river: An investigation based in maps and satellite images', In: Desai, M., Halder, S. (editors): *Coping with Disasters: Mitigation Strategy, Prevention Action and Recovery*, Kolkata, pp 66–85. [ISBN 978-93-80031-70-6]
- De, S.K., Saha, S., Bandyopadhyay, S. Ghosh, K., Bandyopadhyay, S. 2012: 'A quantitative study of hydrological parameters of river Khowai, Tripura', *Indian Journal of Power and River Valley Development*, Vol. 62, No. 7&8, pp 102–109.
- Kar, N.S., Bandyopadhyay, S. 2012: 'Tropical storm Aila: Damage assessment using remote sensing in Satjelia island, Sundarban, West Bengal'. In: Chatterjee, S. (editor): *Community Awareness in Sundarban*, ACB Publications, Kolkata, pp 199–203. [ISBN 81-87500-59-X]
- Pahari, D., Bandyopadhyay, S. 2012: 'Prospects of tourism, its environmental problems and management at Bakkhali coast, South 24-Parganas, West Bengal'. In Jana, N.C. (editor): *West Bengal: Geo-spatial Issues*, University of Burdwan, Bardhaman, pp 80–95. [ISBN 978-93-80813-20-1]
- 2011** : De, S.K, Bandyopadhyay, S. 2011: 'Morphological signatures of fault lines in an earthquake prone zone of southern Baromura hill, north-east India: a multi source approach for spatial data analysis—A critical review', *Environmental Earth Science*, Vol. 63, No. 2, pp 437–441.
- De, S.K., Bandyopadhyay, S., Ghosh, K., Bandyopadhyay, S., Saha, S. 2011: 'Transformation of wetland at Taidu area of South Tripura District, India', *Transactions: Journal of Indian Institute of Geographers*, Vol. 33, No. 2, pp 175–185.

- De, S.K., Saha, S., Bandyopadhyay, S., Ghosh, K., Bandyopadhyay, S., Chakrabarti, S. 2011: 'Transformation of wetland—A case study of Brahma Beel in Teliamura subdivision, West Tripura', *Hill Geographer*, Vol. 27, No. 1&2, pp 18–28.
- Nandy, S., Bandyopadhyay, S. 2011: 'Trend of sea level change in the Hugli estuary, India', *Indian Journal of Geo-Marine Sciences*, Vol. 40, No. 6, 802–812.
- 2010** : Bandyopadhyay, S. 2010: 'Salinity change in the Hugli estuary: can glacial melting be related?', *Current Science*, Vol. 98, No. 9, p 1158.
- 2009** : Bandyopadhyay, S., Mukherjee, D, Pahari, D. 2009 'Coastal erosion and its management at Digha, Medinipur, West Bengal', In: *Geomorphology in India, Prof. Savindra Singh Felicitation Volume*, Prayag Pustak Bhavan, Allahabad, pp 124-132 [isbn 81-86539-78-6]
- 2008** : Bandyopadhyay, S. 2008: 'Nayachar: Factories in place of mangroves.' In Ray, G. (editor): *Nandigram and Beyond*, Gangchil, Kolkata, pp 197–224. [ISBN 978-81-89834-30-2]
- Bandyopadhyay, S. 2008: 'Evolution of Nayachar Island, Hugli estuary, West Bengal'. In Basu, R. (editor): *Changing Scenario of Deltaic Environment*. Department of Geography Manograph No. 1, University of Calcutta, Kolkata, pp 89–95.
- 2007** : Bandyopadhyay, S. 2007: 'Evolution of the Ganga-Brahmaputra delta: A review', *Geographical Review of India*, Vol. 69, No. 3, pp 235–269.
- Bandyopadhyay, S. 2007: 'Riverbank and coastal erosion hazards: Mechanisms and mapping', In: Basu, R., Bhaduri, S. (editors): *Contemporary Issues and Techniques in Geography*, Progressive Publishers, Kolkata, pp 36–72. [ISBN 81-80641-24-4]
- 2004** : Bandyopadhyay, S., Mukherjee, D. Bag, S., Pal, D.K., Das, R.K., Rudra, K.: 2004: '20th century evolution of banks and islands of the Hugli estuary, West Bengal, India: Evidences from Maps, Images and GPS survey'. In: Singh, S., Sharma, H.S., De, S.K. (editors): *Geomorphology and Environment*, ACB Publishers, Kolkata, pp 235–263. [ISBN 81-87500-19-0]
- Sen, J., De, S., Bandyopadhyay, S. 2004: 'Precision mapping of badlands using GPS and remote sensing data at Garhbeta, West Medinipur, West Bengal' In: Singh, S., Sharma, H.S., De, S.K. (editors): *Geomorphology and Environment*, ACB Publishers, Kolkata, pp 204–234. [ISBN 81-87500-19-0]
- 2001** : Bandyopadhyay, S. 2001: 'Responses to environmental hazards in coastal hamlets of Sagar island: An opinion survey' In: Nag, P., Kumar, C.S., Sengupta, S. (editors): *Environment, Population and Development*, Concept Publishing Company, New Delhi, pp 148–154. [ISBN 81-7022-889-1]
- 2000** : Bandyopadhyay, S. 2000: 'Coastal changes in the perspective of long term evolution of an estuary: Hugli, West Bengal, India'. In: Rajamanickam, V., Tooley, M.J. (Eds) *Quaternary Sea Level Variation, Shoreline Displacement and Coastal Environment*, New Academic Publishers, Delhi, pp 103–115.
- 1998** : Bandyopadhyay, S., Pahari, D., Bhakat, R.K., Maiti, G. 1998: 'Evolution of the Nayachara island, Hugli estuary, West Bengal', *Indian Journal of Geography and Environment*, Vol. 3, pp 65–67.
- 1997** : Bandyopadhyay, S. 1997: 'Natural environmental hazards and their management : a case study of Sagar island, India', *Singapore Journal of Tropical Geography*, Vol. 18, No. 1, pp 20–45.
- Bandyopadhyay, S. 1997: 'Coastal erosion and its management in Sagar island, South 24-Parganas, West Bengal', *Indian Journal of Earth Sciences*, Vol. 24, No. 3-4, pp 51–69.
- 1996** : Bandyopadhyay, S. 1996: 'Location of the Adi Ganga palaeochannel, South 24 Parganas, West Bengal : a review', *Geographical Review of India*, Vol. 58, No. 2, pp 93–109.

- Bandyopadhyay, S. 1996: 'Human responses to natural environmental hazards in three coastal hamlets of Sagar island, South 24 Parganas, West Bengal', *Indian Journal of Landscape System & Ecological Studies*, Vol. 19, No. 1, pp 56–60.
- Bandyopadhyay, S., Bandyopadhyay, M.K. 1996: 'Retrogradation of the western Ganga-Brahmaputra delta : possible reasons'. In : Tiwari, R.C. (editor): *Proceedings, 6th Conference of Indian Institute of Geomorphologists, National Geographer*, 31 (1&2), Vol. 31, No. 1&2, pp 105–128.
- Das, K., Bandyopadhyay, S. 1996: 'Badland development in a lateritic terrain at Santiniketan, West Bengal'. In: Tiwari, R.C. (editor): *Proceedings, 6th Conference of Indian Institute of Geomorphologists, National Geographer*, Vol. 31, No. 1&2, pp 87–103.
- 1995** : Bandyopadhyay, S. 1995: 'Similipal massif : a note in geology and geomorphology', *Journal of Bengal Natural History Society, New Series*, Vol. 14, No. 1, pp 4–10.
- Bandyopadhyay, S., Bandyopadhyay, M.K. 1995: 'Antecedence of the Indus: an evaluation'. In: Jog, S.R. (editor) : *Indian Geomorphology, 3rd Conference of Indian Institute of Geomorphologists*, Vol. 2, Rawat Pub., N New Delhi, pp 31–56.
- Chattopadhyay, A., Bandyopadhyay, S. 1995: 'Physical character and utilisation of wetlands: Six case studies from the Darjeeling Himalaya, West Bengal', *Indian Journal of Landscape Systems and Ecological Studies*, Vol. 18, No. 1, pp 30–33
- Das, K., Bandyopadhyay, S. 1995: 'Badland development over laterite duricrusts in Garhbeta, Medinipur district, West Bengal'. In : Jog, S.R. (editor) : *Indian Geomorphology: Proceeding, 3rd Conference of Indian Institute of Geomorphologists*, Vol. 1, Rawat Pub., New Delhi, pp 31–42.
- 1993** : Bandyopadhyay, S., Paul A.K., Bandyopadhyay, M.K. 1993: 'Seasonal changes in beach configuration of Sagar island', *Indian Journal of Landscape Systems and Ecological Studies*, Vol. 16, No. 1, pp 89–90.
- 1992** : Bandyopadhyay, S., Sarkar, S. 1992: 'Remoteness-related population attributes in the Likhar basin neighbourhood, Giridih, Bihar', in : Rai, R.K., Mohapatra A.C., Goel, N.C. (editors) *Environmental Management*, Vol. 2, Rawat pub., N. Del., pp 191–198.
- 1991** : Bandyopadhyay, S., Sarkar, S. 1991: 'Remoteness-related population attributes of Turga Basin, Puruliya District, West Bengal', *Indian Journal of Landscape Systems and Ecological Studies*, Vol. 14, No. 2, pp 76–81.
- 1990** : Bandyopadhyay, S. 1990: 'Evolution of the Sagar island coastline, West Bengal, between 1923 and 1990'. In : Roy, B.K. (editor) : *Cartography for Development of Outlying States and Islands of India, National Atlas & Thematic Mapping Organisation Monograph*, No. 10, Calcutta, pp 68–69.
- Bandyopadhyay, S. 1990: 'Geology and Geomorphology of Ladakh', *Geographical Review of India*, Vol. 52, No. 4, pp 26–48.
- 1989** : Bandyopadhyay, S. 1989: 'Geomorphology of the Likhar basin neighbourhood, Giridih, Bihar' *Indian Journal of Landscape Systems and Ecological Studies*, Vol. 12, No. 2, pp 26–30.
- 1988** : Bandyopadhyay, S. 1988: 'Drainage evolution in a badland terrain at Gangani in Medinipur district, West Bengal', *Geographical Review of India*, Vol. 50, No. 3, pp 10–20.
- 1987** : Bandyopadhyay, S. 1987: 'Man-initiated gullying and slope formation in a laterite terrain at Santiniketan, West Bengal', *Geographical Review of India*, Vol. 49, No. 4, pp 21–26.
- 1986** : Bandyopadhyay, S. 1986: 'Why earthquakes occur in Assam and Colombia – an outline of plate tectonics', *Breakthrough*, Vol. 2, No. 1, pp 21–26.

TRAINING COURSES ATTENDED

- 2008** : *Training Course in PCI Geomatica Remote Sensing Software*, PCI India, Kolkata.
- 2007** : *Training Course in ArcGIS Geographical Information System Software*, ESRI India, Kolkata Regional Office.
- 2000** : *Training Course in PC ARC/INFO Geographical Information System Software*, ESRI India, New Delhi.
- 1999** : *Training Course in Global Positioning System, Electronic Distance Measurement and Total station*, Survey Training Institute, Hyderabad.
- 1998** : *Training Course in Remote Sensing and Geographical Information System*, ISRO/NNRMS, Regional Remote Sensing Service Centre, Kharagpur.
- 1995** : *2nd Refresher Course in Geography*, Academic Staff College, Burdwan University, Bardhaman.
- 1988** : *Training Course in Computers* at Birla Industrial and Technological Museum, Kolkata.

SEMINARS & CONFERENCES ORGANISED

- 2017** : Chairperson of Scientific Committee, *9th International Conference on Geomorphology*, Vigyan Bhavan, New Delhi: November 6–11
- 2016** : Convener, *29th Conference of the Indian Institute of Geomorphologists*, University of Calcutta, Kolkata: November 24–27
- 2010** : Convener, *National Seminar Himalaya: Environment & Development*, Himalaya Samiksha Parishad & University of Calcutta, Kolkata: November 10
- 2008** : Convener, *National Seminar on Perspectives on Himalayan Environment*, Himalaya Samiksha Parishad & University of Calcutta, Kolkata: October 30

EDITORSHIP OF JOURNALS

- Editor of *Journal of Indian Geomorphology* (ISSN 2320-0731, UGC CARE-listed): 2011–2019 (vol. 1–5)
- Associate Editor of *Indian Journal of Geography & Environment* (ISSN 0972-7388): 1996–2000 (vol. 1–4)
- Associate Editor of *Practising Geographer* (Journal of the Indian Geographical Foundation, ISSN 0975-3850)
- Member of Editorial Board of *Geomorphology*, Elsevier: since 2015
- Member of Editorial Board of *National Geographical Journal of India*, Benaras Hindu University: 2019–2021
- Member of Editorial Board of *Prachya: Journal in Asia—Past and Present*, Calcutta University: 2002 (Vol. 1)

LIFE FELLOWSHIPS

- Geographical Society of India, Kolkata (Member of Executive Council at present)
- Himalaya Samiksha Parishad, Kolkata (President of the organisation at present)
- Indian Geographical Foundation, Kolkata
- Indian Institute of Geographers, Pune (past Joint Secretary)
- Indian Institute of Geomorphologists, Allahabad (past President)
- Indian National Cartographic Association, Hyderabad

- Indian Science Congress Association, Kolkata
- Indian Society of Remote Sensing, Dehra Dun
- National Association of Geographers of India, Delhi

COUNTRIES VISITED

- Austria, • Bangladesh, • Cambodia, • France, • Italy, • Malaysia, • Nepal, • Switzerland, • Thailand, and • UK

