

Dr.Saumitra Mukherjee

Date of Birth: 20th January 1959 Place of Birth: Varanasi

**Professor (Geology & Remote sensing), School of Environmental sciences, J.N.U.,
New Delhi-110067**

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Broad area of Specialization: ENVIRONMENTAL EARTH SCIENCES

**Earth Observation Applications for Water Resources Assessment and Management
(Remote sensing and GIS applications and Geophysical techniques in Ground water
Exploration, Rainwater Harvesting, Geochronology, Early warning of Natural
Hazards and its relation with Water resources(Tornado, Cyclone, Earthquake,
Tsunami, Snowfall, Deforestation, Forest Fire).**

Research guidance and publications in the following areas

Monitoring, analyzing, and quantifying components of the water cycle

**Monitoring/Modeling real or near-real time surface and/or subsurface hydrological
processes**

Analyzing interactions of land surface and atmospheric processes

Investigating wetland dynamics

Monitoring, forecasting and managing flooding and droughts

Monitoring land use/cover change and impact on hydrological processes

Determining effects of human activities on both the quantity and quality of water

Developing products for use in integrated water resources management.

Use of Microwave Remote sensing to infer Geology of Moon, Mars and Saturn.

Used Satellite data: IRS, LANDSAT, SPOT (INDIA, UK, and AFRICA), IRS (INDIA),
RESOURCESAT and LIDAR Data (UK), SOHO data of Sun-Earth Environment.

Membership of Professional Bodies

- Life Member, European Space Agency, Netherlands.
- Life Member, European Geosciences Union, Germany.
- Life Member, SOC, JPL/CALTECH/NASA, USA.
- Life Member, European Fleet For Airborne Research, France
- Life Member AIAA, USA
- Life Member, Canadian Remote sensing Society, Ottawa, Canada.
- Associate Member, GEOCHANGE, UK
- Life Member, Indian Society of Remote Sensing, Dehradun.
- Life Member, Indian Association of Hydrology, Roorkee.
- **Executive Fellow (Earth Sciences-India)**
http://www.earthscienceindia.info/executive_comittee.php
- **Commonwealth Fellow (Geology), UK**
- **Life Member, American Geophysical Union, USA**

Education

- PDF: (Commonwealth Fellow). Remote sensing applications in Geology (Remote sensing of Water resources), Earth & Ocean Sciences, The University of Liverpool, Liverpool, UK.
- Ph.D: Geology, Banaras Hindu University, Varanasi (Collaboration with IIRS)
- ***PhD Topic (Geology & Geochemistry of Pegmatites and Associated Rocks of Jorasemar and Sapahitola Area District Bihar with special reference to Applications of Remote Sensing Techniques in Exploration of Natural Resources) September 1989, 365 Pages***
- M.Sc.: Geology, Banaras Hindu University, Varanasi, 1st Div
- B.Sc. : Geology, Botany, Chemistry, Banaras Hindu University, Varanasi, 1st Div
- PGD: Environment & Ecology, IIEE, New Delhi., 1st Div
- Certificate: Remote Sensing & GIS, RRSSC, IIT Kharagpur, West Bengal
- Certificate: Groundwater Exploration and Management, CGWB, Govt. of India.

Employment

- 2006-till date-Professor (Geology/Remote sensing) SES/JNU
- 2004-2005. Visiting Professor, Earth & Ocean Sciences, The University of Liverpool, UK
- 1998-2006-Associate Professor (Geology/Remote sensing) SES/JNU
- 1992-1998 Assistant Professor (Geology/Remote sensing) SES/JNU New Delhi
- 1989-1992: Scientist-C, Remote Sensing Applications Center, UP, Lucknow.
- 1985-1989: Hydrogeologist Central Ground Water Board, Calcutta.
- 1983-1985: JRF (Geology), Banaras Hindu University, Varanasi

Achievements Honors and Awards:

- **UGC Professor of Geology, Remote sensing and Space Sciences (2008)**
- Invited as a speaker (represented India) in NASA supported International Heliophysical Year 2007 at Physics Center, Bad Honnef Germany on “Influence of Sun and other cosmic factors on Environment of the Earth”. (1.5.07-20.5.07) <http://www.ieap.uni-kiel.de/et/ag-heber/ihy2007/sun-heliosphere-earth/cip/program/index.php>
- Commonwealth Fellow (2004-2005) at Department of Earth and Ocean Sciences the University of Liverpool, Liverpool, UK. Designated as Visiting Professor by the University authorities.
- Educator Associate (2003-till date) at AIAA (American Institute of Aeronautics and Astronautics), USA.
- British Association of Sciences Award for popularizing Sun-Earth connection in Liverpool, UK. (2004-2005)
- UGC Associate (2002-2003). The work includes development of curriculum for Remote sensing application in Geosciences in Indian Universities.
- **Recipient of Award from Ministry of Environment and Forest in 2003 for writing a book on “New trends in ground water Research” published in 2006.**
- **Installed Cosmic Ray Detector as a part of Space Environment Viewing and Analysis Network in School of Environmental Sciences, JNU in 2010.**

http://crdlx5.yerphi.am/press_releases/SEVAN_Network_expanding_to_India_Jawaharlal_Nehru_University

- <http://www.reporter.am/go/article/2011-02-08-armenia-s-cosmic-ray-division-expands-international-cooperation-on-space-monitoring>

Peer Recognition and Achievements

- Received prestigious grant from NASA on Influence of Sun and other cosmic factors on environment of the space around Earth.” ASIAN OFFICE (JAPAN) OF AEROSPACE RESEARCH AND DEVELOPMENT UNIT (NASA) USA.2007-2008
<http://www.dtic.mil/cgibin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA512562>
- Advisor (Water Resources), International Foundation for Science, Stockholm, Sweden. (2006...till date)
<http://www.ifs.se/Publications/Strengthening%20Capacity%20for%20Water%20Resource%20Research.pdf>
- Member Education Award Committee AGU,
<http://sites.agu.org/annualreport/volunteers/>
- Visiting Professor, Indian Institute of Remote Sensing, Dehradun (2001.till date)
- **Selected Rainwater Harvesting Sites and successful test groundwater drilling sites (1992-1996) in JNU. Implemented water resource management through UPOE (UGC) project. Selected 7 sites for groundwater exploration in JNU which yielded 25000-35000 Liter per hour of groundwater (2006-2008).These natural resources are for future use of JNU. University has saved money as 15% rebate in water tax based on successful rainwater harvesting and stopped buying water from other sources as it was done earlier.**
- **Scientific way of Integrated Water Resource Management was done in 2004 in RR Hospital, New Delhi Ministry of Defense, GOI, through DST project.**
- Expert Member, DST, GOI, sponsored National Project “Creation of real time monitoring 3D GIS for City Zone Delhi”. This project result identified Disaster prone and unauthorized areas (MCD) of Delhi for development of Master Plan.
- Expert Member, Selection Committee, NCR Planning Board, New Delhi (1999 onwards)
- Expert Member, Selection Committee, DTRL, Defense Ministry, (2000 onwards)
- Expert Member, ISM Dhanbad
- Expert Member, IP University, Delhi

Courses Offered:

M.Sc: **Remote Sensing and Geoinformatics (Initiated the course in SES) (2 credits)**, Water Resources (2 credits), Hydrology (2 credits), and Earth Processes (2 credits).

M.Phil: **Remote sensing Applications in Geosciences (Initiated the course) (3 credits)**, Physical Environment (2 credits), Analytical Techniques (3 credits).

Course/Curriculum development

1. Initiated the course on **Sustainable Geosciences (2012)** for Universities and IIT's in association of GSI, Ministry of Mines and CGWB, Ministry of Water Resources, ISRO, CSIR, DST and faculties of other Universities of India and abroad for development of the subject and future job prospect of M.Sc. students of Geology and Environmental Sciences in India.
http://www.portal.gsi.gov.in/gsiDoc/pub/minutes_6th_cgpb_com_xii.pdf
2. Initiated and developed New M.Sc course **Remote sensing** in SES/JNU in 1992. Revised the course as **Remote sensing and Geoinformatics in 2011**.
3. Initiated and developed New M.Phil course (**Remote sensing applications in Geosciences**) in SES/JNU, revised the course in 2010 and 2012.
4. Invited Member of **UGC Model Curriculum of Geology in Indian Universities (2001)**.
5. Participated in the National Lexicographic initiative to develop and write a dictionary of Geology and Remote sensing words from English to Hindi with Prof.P.S. Sakhlani Director of Rajbhasha Ayog (Ex-Professor of Geology, Delhi University, Ex-VC, HNB University Srinagar) in 1994.
6. Initiated Sustainable Geosciences curriculum covering Applied Geology curriculum (Area II) of School of Environmental Sciences Jawaharlal Nehru University http://mines.nic.in/writereaddata/Filelinks/9f42485a_Document1.pdf approved by Ministry of Mines, Geological Survey of India and Central Groundwater Board, Ministry of Water Resources Government of India, http://www.employmentnews.gov.in/education_and_employment_opportunities_in_geology.asp. All students of M.Sc Environmental Sciences who has taken the Applied Geology courses of SES JNU are eligible to apply for the position of Geologist and Hydrogeologist examination being organized by Union Public Service Commission.
7. Developed the Curriculum and organized invited lectures as a convener of JNU's 1st Refreshers course on Disaster Management sponsored by University Grants Commission in 2013. <http://www.jnu.ac.in/asc/Schedule.htm>

PhD Guidance

1. Kamalleshwar Pratap (1997). Environmental and Georesources assessment in a part of Son valley India, using Remote sensing and GIS techniques working as **Head GIS** in Kampsax India Limited, Noida.
2. S.K. Yadav (1997) Management of Degraded soil for sustainable development using remote sensing techniques & GIS in South Delhi **Associate Professor** of Environmental Management in Chowdhury Charan Singh University Meerut, UP.
3. Pramod Kumar Singh (1999). Natural Resources management for Sustainable Development of Delhi using Remote Sensing and GIS Techniques, (Working as **Professor** of Remote sensing in Institute of Rural Management, Anand, Gujarat)
4. Rajeev Kumar Jaisawal (1999). Natural resources evaluation using Remote sensing and Geographic information system -A case study of a part of Son Watershed, Madhya Pradesh". **Scientist F (Professor Grade)** in ISRO, Headquarter, Bangalore.
5. Abdul Azeem (2000). Environmental Impact Analysis of Vijaywada Thermal Power Station with respect to land use pattern of the area of Vijaywada using

- Remote Sensing and GIS Techniques. **Professor of Remote sensing & GIS** UAE University, Saudi Arab.
6. Anup Kumar Das (2002). Landuse/Landcover pattern analysis and natural resource management using remote sensing and GIS techniques **Scientist F (Professor Grade)** in SAC (ISRO), Ahmadabad.
 7. Promod Kumar (2003). Microzonation of Environmentally stressed areas, due to Air and Water pollution in Delhi, using Remote sensing and GIS techniques. **Scientist** Ministry of Defence GOI.
 8. Bir Abhimanyu Kumar (2005). Remote sensing and Geographic Information System (GIS) based integrated study in a part of coastal West Bengal for natural resource management. **Regional Director**, IGNOU, New Delhi
 9. Seemant Singh Rajput (2009). Natural resource management in Rawanda Africa (Co-guide with Prof.R.K.Trivedi of Geology Department, Sagar University, **Sr.Exploration Geologist** in Reliance India Limited)
 10. Satyanarayan Shashtri (2010) "Water resource management in NCR region by Remote sensing GIS and geophysical techniques". **Associate Professor & Head of Department** of Environmental Sciences Fiji University.
 11. Chander Kumar Singh (2011). Groundwater Exploration and Its Geochemical Assessment in Western Rajasthan: Computational Intelligence Approach for Remote Sensing, GIS & Geophysical Application. **Assistant Professor** in TERI University
 12. Kumar Rina (2011) Assessment of groundwater resources in Sabarmati river basin, Gujarat-A remote sensing and GIS approach. **Assistant Professor** Gandhinagar University Gujarat.
 13. Prabir Mukherjee (2011). Identification of Geological Structures and their roles on the Ground Water Regime of Kachchh District, Gujarat, India. **Remote sensing Scientist** Tata Consultancy Services, New Delhi.
 14. Vijay Veer (2011). Neural Networking for water resource management in Hindon basin. Working as **Scientist-E** in National Informatics Centre, Ministry of Communication and Information technology, Govt. of India
 15. Amit Singh (2012). Remote sensing Approach to study Morphometric influences on Hydrogeoenvironment in the vicinity of Faridabad fault across river Yamuna basin. **Assistant Professor** at Gautam Buddha University, Noida.
 16. Bindu Kumari (2013). Hydrogeomorphic microzonation of a part of Ranchi District, Jharkhand by using Remote sensing and GIS, Awarded May 2013, **Officer** in FCI, Govt. of India.
 17. Ravi Pratap Singh (2013). Identification of Hydrogeomorphological structures and their role on Groundwater regime in Western Assam". **Scientist-Sc** in NRSC, Department of Space, Govt. of India.
 18. Neha Singh (2015). Arsenic Mobilization in Groundwater in north 24 Parganas, West Bengal, **Assistant Professor** of Environmental Sciences in University of Baroda.
 19. Vikas Kamal (2016). Hydrogeomorphological study in a part of the upper Gangatic floodplain. **Scientist**, NHPC, Govt. of India

(Besides these guided 7 M.Phil theses, and 31 M.Sc Dissertations, 7 PhD students are registered presently).

Books Published

1. Mukherjee, S. (2006). Earthquake Prediction. Published by Brill Academic Publishers Koninklijke Brill NV, Leiden (The Netherlands) & Boston (USA). **ISBN-10: 90 6764 450 1 and ISBN-13 (i) 978 9067644 50**

www.brill.nl/default.aspx?partid=10&mcid=8&pid=25855

Cited in Science Journal on 9th March 2007. <http://www.sciencemag.org/books/>

(Citation: [New Concepts In Global Tectonics](#) December 2006 ID LINDLEY, G SCALERA - quake.exit.com)

2. Mukherjee, S. (2004). Text Book of Environmental remote Sensing. Published by Macmillan India Limited New Delhi **ISBN: 1403922357**. INBK103842

<http://www.macmillanindia.com>

3. Mukherjee, S. (1999). Remote sensing Applications in Applied Geosciences. Published by Manak Publications. New Delhi. **ISBN 81-86562-69-9**

<https://www.vedamsbooks.com/no14304.htm>

4. Mukherjee, S. (2007). New Trends in Groundwater Research. ISBN: 1-906083-03-7, COOPERJAL LTD London, UK. <http://www.ideaindia.com>

5. Mukherjee .S. (2010). Water Resource Management. ISBN: 9783838381084 LAP Lambert Academic Publishing Germany

<http://www.booksunlimited.ie/Books/Mukherjee-Saumitra/Water-Resource-Management/9783838381084.htm>

6. Mukherjee. S.(2011). Sun-Earth-Cosmic connection ISBN **978-3-8443-0731-3** LAP Lambert Academic Publishing Germany

<http://www.springer.com/earth+sciences+and+geography/earth+system+sciences/book/978-81-322-0729-0>

7. Mukherjee,S. (2013). Extraterrestrial Influence on Climate Change , ISBN 978-81-322-07290 Springer. <http://www.springer.com/earth+sciences+and+geography/earth+system+sciences/book/978-81-322-0729-0>

8. Mukherjee S with Srivastava, P.K, Gupta, M and Islam, T.(2014). Remote sensing applications to environmental research. Springer.

<http://www.springer.com/earth+sciences+and+geography/geophysics/book/978-3-319-05905-1>

9. Mukherjee Saumitra with Islam T, Srivastava P.K. , Gupta, M and Zhu,X.

(2014). Computer Intelligence Technique in Earth and Environmental sciences, Springer.

Published by Springer Verlag, USA. ISBN 978-94-017-8642-3

<http://www.springer.com/environment/book/978-94-017-8641-6>

10. Mukherjee, Saumitra (2015). Extraterrestrial Influence on Climate Change (To be published from USA)

Chapter in Books

1. Mukherjee, Saumitra (2014). Procedure for selection of check dams site in Rain water harvesting. . Chapter 23, Handbook of Engineering Hydrology, Fundamentals and Applications. Pp 486-500 CRC Press
<http://www.crcpress.com/product/isbn/9781466552418>
2. S.N.Sashtri, A.Singh, **Saumitra Mukherjee**, S. Eslamian and C.K.Singh (2014). Groundwater Exploration: Geophysical Remote sensing and GIS Techniques. Handbook of Engineering Hydrology, Fundamentals and Applications. Pp CRC Press <http://www.crcpress.com/product/isbn/9781466552418>
3. P.Sajadi, A.Singh, **Saumitra Mukherjee** and K.Chapi (2014). Hydrological investigations of Dahalgaon plain, Kurdistan, Iran using geophysical techniques. Environment and Biodiversity, Ed. N.Gupta & D.K.Gupta, Narendra Publishing House, Delhi.
4. **Mukherjee, S.**, J.B.D Pradeep Kumara and C.K.Singh (2012). Remote Sensing Applications to Infer Yield of Tea in a Part of Sri Lanka Chapter IV in Book Crop Improvement Under Adverse Conditions Tuteja, Narendra; Gill, Sarvajeet Singh (Eds.)(Springer, New York)2012, 438 p. 74 illus., 51 in color. ISBN 978-1-4614-4632-3 <http://www.springer.com/life+sciences/plant+sciences/book/978-1-4614-4632-3>
5. Joao Fernando Pereira Gomes, **Saumitra Mukherjee**, Milan M. Radovanović, Boško Milovanović, Luka Č. Popović, Andjelka Kovačević, Chemical Engineering Department, IST, Instituto Superior Técnico, Torre Sul, Lisboa, & Portugal. 2012. Solar Wind: Emission, Technologies and Impacts Possible Impact of the Astronomical Aspects on the Violent Cyclonic Motions in the Earth's Atmosphere .Nova Science Publishers. **ISBN:** 978-1-62081-984-5
https://www.novapublishers.com/web/web_files/NewTitles/08_2012_August%20New%20Titles.pdf
6. Mukherjee.S.(2011). Advances Sun-earth-cosmic connection to understand early warning of earthquakes. in Earth Sciences, Vol. II Edited by Satish C. Tripathi, Satish Serial, Geological Survey of India 2011, xvi, 362 p, ISBN : 81-89304-92-5 <http://www.earthscienceindia.info/publication.php>
7. Mukherjee, S. (2003). Security Implications of Climate Change. In India's National security-Annual review (Ed.Satish Kumar). Published by India Research Press. ISBN 81-87943-56-4. <http://www.indiaresearchpress.com>
8. S. Mukherjee (1998), The Islands chapter 2.15, pp264-268 in Dying Wisdom (Rise fall and potential of India's traditional water harvesting system, State of India's Environment A citizens report. Edited by Anil Agarwal and Sunita Narayan Published by centre of Science and Environment, New Delhi. ISBN No: **81-86906-07-X** www.cseindia.org/html/extra/twhs.htm

Publications in Peer Reviewed Journals.

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1. **Saumitra Mukherjee** and Priyadarshini Singh (2016).Tectonic features on the Lunar South pole. *PLANEX* Vol.6, Issue, 2016 Pp 12-15
 2. Vikas Kamal, **Saumitra Mukherjee**, P.Singh, R.Sen,C.A.Vishwakarma, P.Sajadi, H.Asthana and V. Rena (2016).Flood frequency analysis of Ganga River at Haridwar and Garhmukteshwar. *Journal of Applied Water Science*. DOI.10.1007/s13201-016-0378-3
 3. Singh C.K, Kumar P, Kumar, A and **Saumitra Mukherjee** (2015). Depositional environment in great Indian desert using grain size parameters and its chemical characterization. *Jour.Geol.Soc India*, Vol.86, Issue,4, Pp 412-420 IF:0.596
 4. **Saumitra Mukherjee** and Priyadarshini Singh (2015). Identification of Tectonic deformations on the South Polar surface of the Moon. *Planetary and Space Science*, **112**(2015), 46-52
 5. **Saumitra Mukherjee** (2015). Northern India Power Grid failure due to extraterrestrial changes. *Journal of Earth Science and Climatic Change* 6-21, <http://dx.doi.org/10.4172/2157-7617.1000261> IF:1.69
 6. **Saumitra Mukherjee** with Javed Mallick Chander Kumar Singh Hussein Al-Wadi Mohd. Ahmed, Atiqur Rahman and Satyanarayan Shashtri (2015). Geospatial and geostatistical approach for ground water potential zone delineation. *Hydrological Processes* (Wiley) Volume 29, Issue 3, Pages 395-418 January 2015 DOI: 10.1002/hyp.10153 (IF: 2.448)
 7. **Saumitra Mukherjee** (2015). Geochronology. Vol.S4No.001. *Journal Earth Science and Climatic Changes*. DOI:10.4172/2157-7517-S4-001Pp 1-4 (I.F: 1.69)
 8. **Saumitra Mukherjee** (2015).Climate change includes variation in groundwater quality.Vol3 No.5 *Jour. Earth science and climatic change*. S3 <http://dx.doi.org/10.4172/2157-7617.S3-005> (I.F.1.69)
 9. **Saumitra Mukherjee** (2015). Rise in Galactic Cosmic Rays before thunderstorm in Delhi. *Journal of Phys.Maths*, 6: 131, Doi:10.4172/2190-0902.1000131
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10. Vikas Kamal and Saumitra Mukherjee (2014). Study of geomorphological changes in upper Ganga floodplain from 1973 to 2013. *Quest Journal, Journal of research in Eanvironment and Earth Sciences*./vol.1, Issue.3Pp 17 – 31, ISSN online 2348-2532
 11. C.K.Singh and Saumitra Mukherjee (2014).Aqueous geochemistry of fluoride enriched groundwater in arid part of western India. *Environmental Science and pollution research*. DOI:10.1007/s11356-014-3504-5 (Impact Factor:2.78)
 12. Mukherjee S (2014) Electron Flux and Cosmic Ray Anomaly Before H1N1 Outbreak. *J Climatol. & Weather Forecasting* 2:113. doi:10.4172/2332-2594.1000113 (IF:1.69) <http://esciencecentral.org/journals/electron-flux-and-cosmic-ray-anomaly-before-hn-outbreak-2332-2594-2-113.php?aid=33737>
<http://esciencecentral.org/journals/flyers/climatology-weather-forecasting.pdf>
-

13. Saumitra Mukherjee in S.Priyadarshini (2014).Extra terrestrial solar event triggered Uttarakhand Cloudburst. Nature India Macmillan Press.
Doi:10.1038/nindia.2014.98
<http://www.natureasia.com/en/nindia/article/10.1038/nindia.2014.98>
14. Saumitra Mukherjee(2014). Extra terrestrial remote sensing and geophysical applications to understand cloudburst in uttarakhand India.Journal of Geophysics and Remote sensing, volume 3 issue 3, 1000124, <http://dx.doi.org/10.4172/2169-0049.1000124> <http://omicsgroup.org/journals/extra-terrestrial-remote-sensing-and-geophysical-applications-to-understand-kedarnath-cloudburst-in-uttarakhand-india-2169-0049.1000124.php?aid=27363>
15. Saumitra Mukherjee and Vijay Veer (2014). Water resource management in a part of Hindon basin, India using Artificial Neural Networking and image processing technique. International Journal of Innovation and Advancement in Computer Sciences.(Impact Factor 1.96). Volume 3 Issue 4 Pp 96-117
16. Radovanovic,M.M., Ducic,V. and Saumitra Mukherjee (2014).Climate Changes instead of Global warming. Thermal Science (International Scientific Journal). Impact Factor 1.45. (DOI:10.2298/TSCI140610076R).
<http://thermalscience.vinca.rs/online-first>
17. Neha Singh, Ravi Praksh Singh, Vikas Kamal,Ratan Sen and **Saumitra Mukherjee**.(2014).Assessment of hydrogeochemistry and the quality of groundwater in 24-Parganas districts, West Bengal" Envir.Earth Sci (Springer)(DOI: 10.1007/s12665-014-3431-2)
[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1099-1085](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1085)
18. **Saumitra Mukherjee** and Priyadarshini Singh ; Singh, P.(2015) "Application of m- \$chi\$ Decomposition Technique on Mini-SAR Data to Understand Crater and Ejecta Morphology," *Geoscience and Remote Sensing Letters, IEEE* , vol.12, no.1, pp.73,76, Jan. 2015 doi: 10.1109/LGRS.2014.2326420 IF:1.823
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6828756&isnumber=6878497>
19. **Saumitra Mukherjee** and Singh P in S.Priyadarshini.(2014). Moon shows Earth like activities doi:10.1038/nindia.2014.57; Published online 25 April 2014
<http://www.nature.com/nindia/2014/140425/full/nindia.2014.57.html> (*Nature India*)
20. **Saumitra Mukherjee**. & Singh, P. (2014) Investigation of tectonic processes in the lunar South Polar Region using Mini-SAR and other data. *Front. Earth Sci.* doi:[10.3389/feart.2014.00006](https://doi.org/10.3389/feart.2014.00006) fert.2014 00006 (Nature Publishing Group).
21. Vikas Kamal, **Saumitra Mukherjee**,Deepika Srivastava, Naba Hazarika and Neha Singh.(2014). Geoenvironmental study of alluvial aquifer in Upper Gangetic plain, a case study of J P Nagar, Uttar Pradesh, India. IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)e-ISSN: 2319-2402,p- ISSN: 2319-2399.Volume 8, Issue 5 Ver. III (May. 2014), PP 00-00www.iosrjournals.org(I.F.1.8)
22. Prashant K. Srivastava, Sudhir K. Singh, Manika Gupta,Jay Krishna Thakur and **Saumitra Mukherjee**.(2014) Modeling impact of landuse change

- trajectories on groundwater quality using remote sensing and GIS. *Environmental Engineering and Management Journal*, Volume 12, No.12/2013. (IF: 1.70)
23. Neha Singh, R.P Singh, Saumitra Mukherjee, K.McDonald and K.J.Reddy (2013)Hydrogeological processes controlling the release of arsenic in parts of 24 Parganas district, West Bengal. *Environmental Earth Sciences*, November 2013, 10.1007/s12665-013-2940-8.
 24. C.K.Singh, Kumari Rina, R.P Singh and **Saumitra Mukherjee** (2013). Geochemical characterization and heavy metal contamination of groundwater in Satluj River Basin, *Environmental Earth Sciences*(Springer). IF: 1.059<http://link.springer.com/article/10.1007%2Fs12665-013-2424-x> March 2013 IF:1.059
 25. Kumari Rina P.S.Dutta,C.K.Singh and Saumitra Mukherjee (2013). Determining the genetic origin of Nitrate contamination in aquifers of Northern Gujarat, India. *Environmental Earth Sciences* (Springer). DOI: 10.1007/s12665-013-2575-9 (Accepted 20th May 2013) IF: 1.059
 26. Kumari Rina, P.S.Dutta, C.K.Singh and **Saumitra Mukherjee** (2013). Isotopes and ion chemistry to identify salinization of coastal aquifers of Sabarmati River Basin. *Current Science*, Vol.104. No.3, Pp335-344 I.F.0.935
 27. Singh, S.K, Srivastava,P.K., Gupta,M, Thakur,J.K. and Saumitra Mukherjee.(2014). Appraisal of Landuse/Landcover of Mangrove forest ecosystem using support vector machine.*Environmental Earth Sciences*, Springer, Vol.71,No.5,Pp 2245-2255 DOI 10.1007/s12665-013-2628-0
 28. C.K.Singh, Kumari Rina, R.P Singh and Saumitra Mukherjee (2013). Geochemical characterization and heavy metal contamination of groundwater in Satluj River Basin, *Environmental Earth Sciences*(Springer). <http://link.springer.com/article/10.1007%2Fs12665-013-2424-x> March2013 IF:1.059
 29. Kumari Rina, C.K.Singh, P.S.Dutta, Neha Singh and Saumitra Mukherjee (2012).Geochemical modeling, ionic ratio and GIS based mapping of groundwater salinity and assessment of governing processes of Northern Gujarat, India. *Environmental Earth Sciences* (Springer) DOI: 10.1007/s12665-012-2067- (Published November 10 2012).IF: 1.059
 30. Ma Weiyu, Liu Chunbo and Saumitra Mukherjee. (2012).A study on abnormal temperature variation of the earthquake in Jiujiang,China (2005) according to additive tectonics stress. **High Technology Letters** 2012, 18(2) Pp. 214-218
 31. Prashant K. Srivastava, Dawei Han, Manika Gupta, **Saumitra Mukherjee** (2012). Integrated framework for monitoring groundwater pollution using GIS and multivariate analysis. [*Hydrological Sciences Journal*](#)[®], 57,7, 1453-1472, ISSN: 0262-6667 (IF:3.59)
 32. S. K. Singh, P. K. Srivastava, M. Gupta and **Saumitra Mukherjee** (2012). **Modeling mineral phase change chemistry of groundwater in a rural-urban fringe.***Water Science and Technology*, IWA Publishing. **66.7 ,1502-1510** DOI: doi: 10.2166/wst.2012.338 (I.F.: 1.122)
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Refreshers Course Lectures:

Besides routine refreshers course lecture in Geology and Remote sensing (since 1992) following recent lectures were delivered.

1. Mukherjee, S. (2014) Remote sensing Applications in Environmental Sciences. JNU refreshers course lecture on Environmental Sciences.
2. Mukherjee S. (2013). Remote sensing applications in Earthquake Prediction, Key note lecture of Convener in the 1st Disaster Management Refreshers course organized by JNU.
3. Mukherjee, S. (2012). Geoinformatics for Computer Sciences, Refreshers course on 16th July 2012 Academic Staff College, JNU (Invited resource person for Computer Sciences, JNU)
4. Mukherjee S. (2011). Geology and Remote sensing. Refreshers course in Geology, Department of Geology, Banaras Hindu University, Varanasi, 15th January 2011.
5. Mukherjee, S. (2011). Remote Sensing and GIS applications in Environmental Sciences. Academic Staff College Computer Sciences Lecture. 20th September 2011 JNU, New Delhi
6. Mukherjee. S. (2010). Space Environment Viewing and Analysis Network in JNU. Interdisciplinary Refreshers course in Physics and Electronics, Department of Physics & Astrophysics, University of Delhi. 25th December 2010

International and National Conference/Seminar Publications International Conference/Seminar

1. Saumitra Mukherjee (2015). Chaired a Session on “Remote sensing and Environmental Change” *Internat. Conf. Global Environmental change in the Himalayan Region*. 6-8 November 2015 organized by German House For Research and Innovation, New Delhi.
2. Saumitra Mukherjee (2015). Influence of Solar and Galactic cosmic rays on Environment of the earth. International Study for Earth-Affecting Solar Transients (ISEST)/MiniMax in México City, México, October 26 – 30, 2015.
<http://cintli.geofisica.unam.mx/congreso/>

3. Saumitra Mukherjee (2015). Water Resource Management by remote sensing. International workshop on water Resource Management. Perspective from Europe and South Asia. 28-29 September 2015. German House for research and Innovation, New Delhi. <http://www.asia-europe.uniheidelberg.de/en/newsevents/news/detail/m/heidelberg-centre-south-asia-organises-event-series.html>
4. Vikas Kamal and Saumitra Mukherjee (2014). Geomorphological changes in Upper Gangetic Flood Plain over last forty years. National Conference on Quaternary Climate Change: New Approaches and Emerging Challenges, BSIP Lucknow, India December 15-16, 2014. <http://www.bsip.res.in/national%20conference%20.html>
5. R.P. Singh, N. Singh, S. Shashtri and **Saumitra Mukherjee** (2014). Utilization of Satellite data in identification of Geomorphic landform and its role in Arsenic release in groundwater. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume II-8, 2014 Pp 29-35 (IF: ISPRS Technical Commission VIII Symposium, 09 – 12 December 2014, Hyderabad, India)
6. Saumitra Mukherjee (2014). Influence of galactic cosmic rays on the magnetic field of the Sun. MHD Days 2014. December 2-3 2014, Leibniz Institute for Astrophysics, Potsdam, Germany <http://www.aip.de/en/research/research-area-cmf/cosmic-magnetic-fields/mhd/events/mhd14/program/prog>
7. Saumitra Mukherjee (2014). Application of Remote sensing and GIS on River Conservation. International conference on “Integrated River Management for Ganga” a collaborative research initiative for River Conservation. National Mission for Ganga, MOEF, GOI, & Co host IC Impacts Center for Excellence Canada, February 10-11, 2014, New Delhi, India. <http://ic-impacts.com/?p=1726>

8. **Saumitra Mukherjee** and P. Singh (2014). Identification of Morphological features of Lunar Craters in a region of Lunar South Pole using MiniSAR data. 45th Lunar and Planetary Science Conference. The Woodlands, Texas, USA, March 17–21, 2014 <http://www.hou.usra.edu/meetings/lpsc2014/>

9. **Saumitra Mukherjee** (2014). Neotectonic Influence on Ground Water Quality, National Capital Region. Proc. Workshop on Water Conservation and Sustainable Management of Groundwater in National Capital Region. Vigyan Bhawan, New Delhi organized by CGWB, MOWR, Govt. of India, 20th March 2014. <http://cgwb.gov.in/highlights.html>

10. **Saumitra Mukherjee** (2013). Geological Hazards in the Himalayan Ecosystem. Int. Conf Manifestation on Climate Change, Proc. Pathways to Climate resilient livelihoods in the Himalayan River Basins. IRMA(.India), IISA(Austria) organized at New Delhi, India <https://www.irma.ac.in/institute/doc/CARIAAConferenceProceeding.pdf>

11. **Saumitra Mukherjee** (2013). Space Environment viewing Network for Climate Change. Proc. AGU Chapman Conference on communicating Climate Science.: A historic look to the future. Pp 41,8-13 June 2013, Granby, Colorado, USA <http://chapman.agu.org/climatescience/files/2013/05/Final-Program-5-23.pdf>

12. A. Singh, R. Kumar and **Saumitra Mukherjee** (2012). Assessment of morphotectonic influence on hydrological environment in vicinity of an active fault system-remote sensing and GIS integrated approach. GSA Annual meeting and Exposition gsa-2012AM-9628-5121-5065-7613 Paper #210778, 4-7 November 2012, California, USA
<https://gsa.confex.com/gsa/2012AM/dis/papers/index.cgi?username=210778&password=693910>

12. A. Singh, A. Garg and **Saumitra Mukherjee** (2012). **A comprehensive assessment of Coprates Chasma on Mars as a target site for future exploration Missions, COSPAR 12, Mysore, India 19th July 2012.** 39th COSPAR Scientific Assembly. Held 14-22 July 2012, in Mysore, India. Abstract F3.2-8-12, p.1816 <http://www.cospar-assembly.org/>

13. Saumitra Mukherjee (2012). Invited paper presented on 11th April 2012 at Vigyan Bhawan, New Delhi in India Water Week 2012, 10-14th April 2012. Effect of climate change on water resources. <http://www.indiawaterportal.org/event/22095>

14. Paper Presented by Saumitra Mukherjee and chaired the session in 4th National Ground Water Congress on 13th April 2012 at Vigyan Bhawan. "*Remote sensing and GIS application for Sustainable Hydrogeosciences*" **Saumitra Mukherjee**, Chander Kumar Singh, Kumari Rina. Proc. Theme: Water and Food security, Pp 97-104

15. Saumitra Mukherjee with Kumari Rina (2011). Poster presented on the topic "*Hydrogeochemical Processes Governing Groundwater Quality in the Sabarmati Basin, Gujarat*" **The 32nd Asian Conference on Remote Sensing. 3-7 October, 2011, Taipei, Taiwan.** Kumari Rina, Chander Kumar Singh, Saumitra Mukherjee

16. Kumari Rina, C. K. Singh, **S. Mukherjee** Paper presented in **3rd International Conference on Climate Change & Sustainable Management of Natural Resources.** "*Geochemical modeling and Ionic ratio in integration with GIS to infer Groundwater salinity in parts of Sabarmati Basin, Gujarat*"

17. **Chander Kumar Singh**, S. Shashtri, Kumari Rina, R. P. Singh, B. C. Oinam and S. Mukherjee Paper presented in **IGCP Conference 582** on the topic "*Qualitative assessment of parameters controlling groundwater quality in Sabarmati River Basin*"

18. Chander Kumar Singh, S. Shashtri, Kumari Rina, R. P. Singh, B. C. Oinam and **S. Mukherjee** Paper presented in **National Seminar on Environmental Pollution and Bioremediation**, SES, Jawaharlal Nehru University on GIS based multi-criteria analysis and geochemical modeling to assess the groundwater quality in a part of Punjab.

19. **Mukherjee, S with A. Singh** (2011). REMOTE SENSING APPROACH TO

DETECTION OF INITIAL STAGES OF URBAN INTRUSION INTO NATURAL LAND COVER” (No. 194)32nd Asian Conference on Remote Sensing(ACRS2011) to be held in Taipei International Convention Center (TICC), Taipei, Taiwan from October 3 to 7, 2011

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attended by top level scientists of India including Prof.M.G.K.Menon, Prof.M.S.Swaminathan Dr.K.Radhakrishnan (ISRO Chairman) and Prof.Asish Dutta.

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composition and ionic ratio. National symposium on space technology for food and environmental security. Ocean and Geological applications theme. December 5-7 NASC complex, New Delhi.

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Editor in Chief

Sun-Earth-Cosmic Connection to Infer Changes on the Environment of Earth, Environmental Informatics (2016). Frontiers Journal (Nature Group of Journal).

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<http://www.besr.org.in/index.php/besr/index>

Review Editor: Frontiers in Earth Sciences Nature Publication Group (2013-till date)

<http://community.frontiersin.org/people/ProfessorMukherjee/121512>

Guest Editor: Geocarto International (Remote sensing Applications in Geosciences) Taylor & Francis (2011-2012)

<http://www.tandfonline.com/doi/pdf/10.1080/10106049.2012.676819>

Review Editor: Journal of Geophysics and Remote sensing, 2013 onwards.

<http://www.omicsgroup.org/journals/editorialboard-geophysics-remote-sensing-open-access.php>

Member Editorial Board: Journal of Earth Sciences and Climatic Changes 2013 onwards. <http://omicsonline.org/editorialboard-earth-science-climatic-change-open-access.php>

Academic Editor: British Journal of Applied Science and Technology.

<http://www.sciencedomain.org/editorial-board-members.php?id=5>

Reviewer of Journals

1. International Journal of Remote Sensing, Taylor & Francis. UK.
2. Journal of Atmospheric and Solar-Terrestrial Physics, Elsevier. Amsterdam
3. Environmental Earth Sciences
4. Planetary and Space sciences
5. Hydrology
6. Geocarto International
7. Hydrological Processes
8. Journal of Indian Society of Remote sensing, Derhadun, India.
9. Journal of Spatial Hydrology, USA

Convener/Organizer of the following Workshop/Conferences/Meetings

1. Convener: Rainwater harvesting and Ground water, 3rd World Water Forum 2003 Kyoto, Osaka and Shiga, JAPAN.
2. Convener: Implementing Integrated Water Resource Management 4th World Water Forum 2006 Mexico City.
3. Convener: Environmental flow requirements, Hydrological Sciences 1st EGU General Assembly European Geosciences Union 25-30 April 2004 NICE. France.

4. Convener: Sun-earth connection triggers Earthquakes, Seismology, EGU general Assembly. European Geosciences Union, 24-29 April 2005 Vienna Austria.
5. Convener: Integrating methods for water resources management, Hydrological Sciences, EGU general Assembly. European Geosciences Union 2-7 April 2006 Vienna Austria.
6. Convener: Sun-earth connection triggers Earthquakes, Seismology, EGU general Assembly. European Geosciences Union, 2-7 April 2006 Vienna Austria.
7. Convener, Earth and Space sciences informatics, AGU Joint Assembly, Acapulco, Mexico, 22-25 May 2007.
8. Regional Editor. Research Journal on Environment and earth Sciences. Maxwell Scientific Organizations

List of Project

- 1.S.Mukherjee P.I. Selection of Check dam sites and groundwater exploration points in JNU. IRS and SPOT satellite data was used and checked by resistivity and magnetic methods.(Initiated the work in 1993 Support by CGWB,MOWR, 1995-1999)
- 2.S.Mukherjee P.I. Re-evaluation of Seismogenic potentiality of Delhi Rohtak area by using satellite data and geophysical investigations. IRS satellite data was used to do Seismic Microzonation of Delhi-Rohtak area. Supported by Accelerometer survey in suitable locations selected by remote sensing methods. Supported by ESS, DST, 1996 - 1998
- 3.S.Mukherjee P.I. Oceansat-1 Data Evaluation, Space Applications Center, ISRO, Ahmedabad, India 1998-1999
- 4..S.Mukherjee P.I. Blue print of water resource management in North 24 Parganas, West Bengal by satellite remote sensing, Analysis of satellite data for land suitability analysis for qualitative and quantitative estimation of ground water resources. Supported by Department of Environment, Government of West Bengal, 1998 – 2000.
- 5.S.Mukherjee P.I. Water Resource Management in RR Hospital area, New Delhi by using satellite data and geophysical investigations, IRS PAN and LISS III data were merged to infer suitable locations for artificial recharge and ground water exploration. This project was funded by NRDMS,DST, Government of India, 2004 (Short term project).
- 6.S.Mukherjee P.I. Sun-Earth Connection, Sun-Earth geophysical and heliophysical changes influences the Environment of the earth.NASA -ESA sponsored academic professionals project (represented India)., 1998- 2007
7. S.Mukherjee P.I. Restoration of Ecosystem in densely populated areas of UK and India for groundwater exploration and artificial recharge through satellite remote sensing. Sponsored by European Space Agency (Italy), 2004-2007
- 8.S.Mukherjee P.I. Delineation of thematic layers using IRS-1D LISS III satellite Data for Delhi, Punjab, M.P, Bihar and W.B., NIC, Department of Information Technology, Government of India, 2005-2006
9. S.Mukherjee P.I. Rooftop rainwater Harvesting, Check Dams and New sites for Groundwater exploration in JNU campus, Use of Satellite data and Geophysical techniques are being used for selection of sites. UPOE /UGC 2005-2007.
- 10.S.Mukherjee P.I. Estimation of Cotton growing areas and yield in Bhatinda District and adjoining areas of Punjab by using multi-spectral Satellite data, Estimation of Cotton growing are and yield in Bhatinda District and adjoining areas of Punjab by using multi-spectral Satellite data and Groundwater optimization. DST, Government of India, 2006-2008.
11. S.Mukherjee P.I. “Influence of Sun and other cosmic factors on environment of the space aroi Earth.” ASIAN OFFICE (JAPAN)OF AEROSPACE RESEARCH AND DEVELOPMENT UNI (NASA) USA.2007-2011

12. S.Mukherjee P.I. Geomorphology and Lineament mapping. ISRO-GSI joint National Project 2010-2014
13. S.Mukherjee Investigation of Tectonic processes in the Lunar South Polar region using Mini SAR and other data. First ISRO-SAC pilot project for Chandrayan-1 data analysis. 2010-2013.
14. S.Mukherjee P.I. Ganga Basin Geomorphology. MOEF National Project 2010-2012
15. S.Mukherjee P.I. Assessment of tectonic implications on groundwater in vicinity of Faridabad and Ghaziabad faults across river Yamuna. DST sponsored Project (2011-2013).
16. S.Mukherjee. Application of satellite remote sensing to support water resources management in the Medjerda watershed: Impacts on the hydrological and hydrogeological functioning in the lower valley of the basin. Indo Tunisian project. 2013-2016.
17. S.Mukherjee C PI with C.K Singh **Targeting low-arsenic and low-fluoride groundwater to reduce exposure in rural Punjab, India with** Alexander van Geen of Lamont-Doherty Earth Observatory, Columbia University) Project Dates: August 2013 to January 2015 http://sites.nationalacademies.org/PGA/dsc/peerscience/PGA_084035
Sponsored by DSC ,The National Academies 500 5th St NW - KWS 502 Washington, DC 20001 USA
18. S.Mukherjee P.I. **Impact of Neotectonic activity and Landuse changes on groundwater quality in a part of National Capital Region. NRDMS DST Project. 2014-2016.**

Other contribution for my own organization (JNU)

1. As Faculty Advisor to the Vice Chancellor JNU on Water Resource Management (1994 to 2008) Selected groundwater exploration sites, Artificial recharge sites and Integrated Water Resource Management for JNU by using satellite data and geophysical methods. In 1994 initiated Ground water drilling in the campus successfully in collaboration with ISRO-CGWB-IIT Delhi. Further in 2005-2006-2007-2008 selected 8 sites utilizing Magnetic, Resistivity and Satellite data, the discharge was very good in all these Tube wells drilled so far (20,000 LPH to 40,000 LPH with less than 10 meter drawdown). The University is totally depending on this water during no supply of MCD
2. Helped University since 1992 in scientific planning by using DEM Satellite data for the expansion of JNU campus and selection of sites for Rooftop rainwater harvesting

