

## **LIST OF PUBLICATIONS of Professor Ramesh P Singh, Chapman University**

1. R.P. Singh and T. Lal, Wave-tilt characteristics of EM waves over a homogeneous earth model, IEEE Trans. on Geoscience and Remote Sensing, v. GE-18, p. 285-288, 1980.
2. R.P. Singh and T. Lal, Wave-tilt characteristics of TE-mode waves, Canadian J. Earth Sciences, v. 18, p. 382-385, 1981.
3. R.P. Singh and T. Lal, Influence of Permeability on wave-tilt of EM waves, Canadian J. Earth Sciences, v. 19, p. 1323-1325, 1982.
4. R.P. Singh, Microwave remote sensing of oil slicks over the ocean surface, Canadian J. Remote Sensing, v. 4, p. 126-136, 1982.
5. R.P. Singh, Potentialities of electric and magnetic wave tilt measurements, Radio Science, v. 18, p. 199-206, 1983.
6. R.P. Singh, U.B. Saikumar and T. Lal, Wave-tilt characteristics of EM waves over a two-layered earth model, Journal Geomagnetism Geoelectricity, v. 36, p. 139-147, 1984.
7. R.P. Singh, Microwave radiometry for the detection of oil films on water surfaces, Indian J. Technology, v. 22, p. 119-120, 1984.
8. R.P. Singh, Dielectric properties and Microwave Remote Sensing, Remote Sensing from Satellites, Pergamon Press, Ed. W.D. Carter and E.T. Engman, v. 4, p. 97-101, 1984. (published by Pergamon press)
9. D. Rankin and R.P. Singh, Reply on Ionospheric induced very low frequency wave-tilt changes (Discussion by J. R. Wait), Geophysics, v. 49, p. 1388-1389, 1984.
10. D. Rankin and R.P. Singh, Effect of clay and salinity on the dielectric properties of rock J. Geophys. Res., v. 90, p. 8793-8800, 1985.
11. R.P. Singh and D. Rankin, Dielectric properties of oil-clay-sand media, J. Geophysical Res., v. 91, p. 3877-3882, 1986.
12. R.P. Singh and E. Nyland, Detection of saline groundwater with high frequency electromagnetic measurements, IAHS Publ., no. 157, p. 133-141, 1986.
13. R.P. Singh, V. Kumar and S.K. Srivastav, Use of microwave remote sensing in salinity estimation, Int. J. Remote Sensing, v. 11, no. 2, 321-330, 1990.
14. R.P. Singh and S.K. Srivastav, Mapping of waterlogged and salt-affected soils using microwave radiometers, Int. J. Remote Sensing, v. 11, p. 1879-1887, 1990.
15. R.P. Singh, Q. Li and E. Nyland, Lithospheric deformation beneath the Himalayan region Physics Earth Planet. Int., v. 61, p. 291-296, 1990.
16. S. Nabetani and R.P. Singh, Review on Geothermal Resources in India, Geothermal Energy, v. 15, p. 98-114, 1990.
17. R.P. Singh and Y.P. Singh, RAYPT: A new inversion technique for geographic data Geophysics, v. 56, p. 1215-1227, 1991.
18. R.P. Singh, S. Chandra, A.K. Jha and Y.P. Singh, Computer simulation of crosswell seismic propagation and determination of elastic parameters, Canadian Geotechnical Journal, v. 28, p. 309-315, 1991.
19. S. Chandra, A.K. Jha and R.P. Singh, Three phase model for wave propagation through soils Ind. Geotechnical Journal, v. 21, no. 2, p. 223-232, 1991.
20. A.K. Keshari and R.P. Singh, Use of microwave radiometry for monitoring the alpine environment Snow, Hydrology and Forests in Alpine Areas, Edited by H. Bergmann, H. Lang, W. Frey, D. Issler and B. Salm, IAHS Publ. no. 205, 1991, p. 81-89, 1991.
21. Y. Kant, R.P. Singh and N.K. Goel, Magnetotelluric apparent resistivity-a comparative study of various definitions, Physics Earth Planet. Int., v. 69, p. 8-13, 1991.
22. S.K. Srivastav and R.P. Singh, Microwave radiometry of snow covered terrains, Int. J. Remote Sensing, v. 12, p. 2117-2131, 1991.
23. R.S. Chandel, K.R. Rao and R.P. Singh, Geological mapping of south-west Durg region using LANDSAT Thematic mapper data, Advances Space Res., V. 12, P. 31-34, 1992.

24. R.P. Singh, Y. Kant and E.C. Sekhar, Role of electrical properties in airborne and satellite borne sensing, *Advances Space Res.*, v. 12, P. 59-64, 1992.
25. A.K. Keshari, R.P. Singh and A. Rastogi, Microwave radiometry of ice cover in Polar regions, Proc. Pacific Ocean Remote Sensing Conference (PORSEC-'92, Shizuoka, Japan, v. 1, 663-668, 1992.
26. R.P. Singh, Y. Kant and A. Rastogi, Prospects of hydrocarbon in Indo-Gangetic plains and Himalayan foothills region using magnetotelluric method, *Indian J. Petroleum Geology*, v. 1, no. 2, p. 258-271, 1992.
27. S.K. Mishra, R.P. Singh and S. Chandra, Prediction of subsidence in Indo-Gangetic basin due to ground water withdrawal, *Engineering Geology*, v. 33, no. 3, p. 227-239, 1993
28. R.P. Singh, K.K. Pahuja and R.S. Chandel, Geomorphological features using MSS and TM data, *Advances Space Research*, v. 13, no. 11, 129-134, 1993.
29. R.P. Singh, A. Rastogi and A. Adam, Combined interpretation of MAGSAT and surface geophysical data, *Advances Space Research*, v. 13, no. 11, 43-50, 1993.
30. R.P. Singh and S.K. Srivastav, Passive microwave radiometry of multilayer snow surfaces *IL Nuovo Cimento*, v. 16c, no. 4, 437-452, 1993.
31. A.K. Keshari and R.P. Singh, Assessment of Global environment using microwave radiometry, *Advances Space Research*, v. 14, no. 1, 233-236, 1994.
32. R.P. Singh and A.K. Sirohi, Spectral Reflectance Properties of Different Types of Soils *ISPRS J. Photog. and Remote Sens.*, v. 49, no. 4, 34-40, 1994.
33. C. Olbert, R.P. Singh, M. Schaale and R. Furrer, Monitoring of Water with an airborne Spectrographic imager, Proc. First International Airborne Remote Sensing Conference and Exhibition, Strasbourg, France, 11-15 September, 1994, v. III, p. 141-151.
34. R.P. Singh and R.N. Yadav, Prediction of subsidence due to coal mining in Raniganj coal field, *Engineering Geology*, v. 39, p. 103-111, 1995.
35. R.P. Singh, T. Sato and E. Nyland, The Geodynamic Context of the Latur (India) Earthquake of September 30, 1993, *Physics Earth and Planet. Int.*, v. 91, p. 145-251, 1995
36. R.P. Singh and Y. Kant, Sensitivity analysis of EM measurements over exponential varying Conductivity earth models, *Geophys. J. Int.*, v. 121, 111-116, 1995.
37. R.P. Singh, Y. Kant and L. Vanyan, Deep electrical conductivity structure beneath the southern part of the Indo-Gangetic plains, *Phys. Earth and Planet. Int.* v. 88, no. 3-4, 287-294.
38. R.P. Singh and S. Nabetani, Resistivity structure of Puga (India) Geothermal Field Proc. World Geothermal Congress 1995, Florence, Italy, v. 2, p. 887-892, 1995.
39. R.P. Singh and U.K. Singh, Thermal Status of Indian Lithosphere, Proc. World Geothermal Congress 1995, Florence, Italy , v. 2, p. 737-740, 1995.
40. R.P. Singh and A. Sirohi, Spectral properties of different built up surfaces *ASCE J. Aerospace Engineering*, v. 8, no. 1, p. 25-31, 1995.
41. N.B. Venkateswarlu and R.P. Singh, Various approaches to speed up Mahalanobis distance classifier, *Int. J. Remote Sensing*, v. 16, no. 16, p. 3157-3163, 1995.
42. N.B. Venkateswarlu and R.P. Singh, A fast maximum likelihood classifier, *Int. J. Remote Sensing*, v. 16, no. 2, p. 313 - 320, 1995.
43. R.P. Singh, Y. Kant and U.K. Singh, Time domain MT response over three-layered earth model , *Geophys. J. Int.*, v. 123, p. 125-130, 1995.
44. Aman, U.K. Singh and R.P. Singh, A new empirical relation for strong seismic ground motion for the Himalayan region, *Current Sci.*, v. 69, no. 9, p. 772-776, 1995.
45. R. P. Singh, A. Aman and Y.J. Prasad, Attenuation, relations for strong ground motion in the Himalayan region, *Pure and Applied Geophysics*, v. 147, no. 1, p. 161-180, 1996.
46. R.P. Singh and U.K. Singh, Evidence of Fluid in the Lower Crust of Deccan Trap Region and Its possible Role in the Observed Seismicity, *Himalayan Geology*, v. 17, p. 105 – 111, 1996
47. R.P. Singh, C. Olbert, C. Lindemann, M. Schaale and R. Furrer, 1997, Atmospheric monitoring using spectrographic imager, *International J. Remote Sensing*, v. 89, no. 5, p. 1183-1188, 1997.

48. R.P. Singh and U.K. Singh, Tectonic Settings of Indo-Gangetic Basin Revealed from MT data, *Current Science*, v. 73, no. 3, p. 281-284, 1997.
49. P.K. Sahoo, S. Kumar and R.P. Singh, Estimation of Stress using IRS-1B Data of NW Himalaya, *Current Science*, v. 74, no. 9, p. 781-786, 1998.
50. S. Kumar, P.K. Sahoo and R.P. Singh, Brightness temperature over Indian and adjoining region using SSM/I data, *International J. Remote Sensing*, v.20, no. 12, p.2305-2307, 1999.
51. Ajay Srivastava and R.P. Singh, Surface Manifestation Due to Subsurface Ridge *International J. Remote Sensing*, v. 20, no. 18, p. 3461-3466, 1999.
52. Ajay Srivastava and R.P. Singh, Subsurface Control on Salt-affected Regions of Indo-Gangetic Basin, *J. Geological Soc.*, v. 52, p. 473-476, 1999.
53. R.P. Singh, N.C. Mishra, P. Dash and B.K. Mohrana, Snow characterization using SSM/I data, *Current Sci.*, v. 77, no. 9, p. 1180-1184, 1999.
54. R.P. Singh and S. Roy, Determination of Water Vapor Column Using IRS-P3 MOS data, *Current Sci.*, v. 77, no. 8, p.1015-1019, 1999.
55. R.P. Singh, P.K. Sahoo and N.C. Mishra, Seasonal Variations of Brightness Temperature over India, *Advances Space research*, v. 26, no. 7, p. 1081-1084, 2000.
56. P. Dash, R.P. Singh and F. Voss, Neotectonic Study of NW Himalaya Using Remote Sensing and GIS, *Current Sci.*, v. 78, 1066-1070, 2000.
57. N.C. Mishra, P. Dash and R.P. Singh, Brightness temperature over Indian subcontinent *J. Geological Soc.*, v. 55, pp. 541-551, 2000.
58. R.P. Singh, N.C. Mishra, A. Verma and J. Ramaprasad, Total Precipitable Water over Arabian and Bay of Bengal using SSM/I Data, *International J. Remote Sensing*, v. 21, no. 12, p. 2497-2503, 2000.
59. S. Sarkar and R.P. Singh, Inter-annual variability of total ozone deduced from GOME and its relation to observed El Nino of 1997 – 1998, *Current Sci.*, v. 79, no. 1, p. 79-82, 2000.
60. P.K. Sahoo, S. Kumar and R.P. Singh, Neotectonic Studies of Ganga and Yamuna Tear Faults, NW Himalaya Using Remote Sensing and GIS, *Int. J. Remote Sensing*, v. 21, no. 3, p. 499-518, 2000.
61. P. Goloub, J.L. Deuze, M. Herman, A. Marchand, D. Tanre, I. Chiapello, B. Roger and R.P. Singh, Aerosols Remote sensing over land using the Spaceborne Polarimeter POLDER Proceedings of the IRS 2000, St. Petersburg, Russia, July 23-30, 2000.
62. R.P. Singh, N.C. Mishra, S. Sarkar, K.V.R. Reddy and A.K. Sahoo, Inter-annual variability of surface and meteorological parameters over the Arabian Sea PORSEC Proceedings, v. 1, p. 486-489. 2000.
63. R.P. Singh, S. Sarkar and A. Singh, Effect of El Nino Observed over Indian continent from Satellite Derived ozone data EOS, v. 81, no. 36, p. 409, 413, 2000.
64. S.N. Kundu, A.K. Sahoo, S. Mohapatra and R.P. Singh, Change analysis using IRS-P4 OCM data after the Orissa super cyclone, *Int. J. Remote Sensing*, v. 22, no. 7, p. 1383-1389, 2001.
65. R.P. Singh, S. Bhoi, Chandresh, A.K. Sahoo and Rahul Kanwar, Changes in Ocean, *Gis@Development*, v. 5, no. 3, p. 35-36, March 2001.
66. R.P. Singh, S. Bhoi and A.K. Sahoo, Surface manifestations after Gujarat earthquake of January 26, 2001, *Current Sci.*, v. 81, no. 2, p. 164-166, 2001.
67. R.P. Singh, S. Bhoi and A.K. Sahoo, Significant changes in Chlorophyll concentration after Gujarat earthquake, *Current Sci.*, v. 80, no. 11, p. 1376-1377, 2001.
68. R. P. Singh, A. K. Sahoo, S. Bhoi, M. Girish Kumar, C. S. Bhuiyan, Ground Deformations observed after Gujarat Earthquake of January 26, 2001, *J. of Geological Society of India*, v. 58, p. 209-214.
69. P. Goloub, J.L. Deuze, M. Herman, A. Marchand, D. Tanre, I. Chiapello, B. Roger and R.P. Singh, Aerosols Remote sensing over land using the Spaceborne Polarimeter POLDER in IRS 2000 (held at St. Petersburg, Russia, July 23-30): Current problems in Atmospheric Radiation, W. L. Smith and Yu. M. Timofeyev (Eds.), A. Deepak Publishing, Hampton, Virginia, p. 113-116, 2001.

70. R. P. Singh, Sanjeeb Bhoi, A. K. Sahoo, Changes Observed on Land and Ocean after Gujarat Earthquake of January 26, 2001 using IRS Data, International J. Remote Sensing, v. 23, no. 16, p. 3123-3128, 2002.
71. Raed Ahmed and R.P. Singh, Comparison of various data fusion for surface features extraction using IRS Pan and LISS-III data, Advances in Space Research, v. 29, no. 1, p. 73 - 78, 2002.
72. N.C. Mishra, Rahul Kanwar, Sudipta Sarkar, P. Dash and R.P. Singh, Use of multi sensors data for mapping of desert region, Advances in Space Research, v. 29, no. 1, p. 51-55, 2002.
73. M.N. Efstathion, C.A. Varotsos, R.P. Singh, A.P. Cracknell and C. Tzanis, Similarity of total ozone trends over India, Greece and Mediterranean region using TOMS data International J. Remote Sensing, v. 23, no. 12, p. 2449-2456, 2002.
74. R.P. Singh, S. Bhoi, S. Dey, N. Harijan, A.K. Sahoo and R. Kanwar, Anomalous Changes in Ocean Parameters After Gujarat Earthquake of January 26, 2001 Proceedings Symposium International "En route to GODAE" 13-15 June 2002, Biarritz, France, p. 369 - 370, 2002.
75. R. P. Singh, S. Bhoi and A. K. Sahoo, Changes Observed on Land and Ocean after Gujarat Earthquake of January 26, 2001 using IRS Data, International J. Remote Sensing, v. 23, no. 16, p. 3123 - 3128, 2002.
76. H. Negishi, J. Mori, T. Sato, R.P. Singh, S. Kumar, N. Hirata, Size and Orientation of the Fault Plane for the 2001 Gujarat, India Earthquake (Mw 7.7) from Aftershock Observations: A High Stress Drop Event, Geophysical Research Letters, v. 29, no. 20, 1949, doi:10.1029/2002GL015280, 2002.
77. D. R. Mishra, A. K. Sahoo, Rahul Kanwar and R. P. Singh, Estimation Of Monthly Rain Rate Over Indian Ocean Region Using MSMR Data, Current Science, v. 83, no. 7, p. 877-880, 2002.
78. S. Dey and R.P. Singh, Retrieval of aerosol parameters using IRS P4 OCM data over the Arabian sea and the Bay of Bengal, Current Science, v. 83, no. 10, p. 1235-1240, 2002.
79. R. P. Singh and F. Kogan, Monitoring vegetation condition from NOAA operational polar orbiting satellites over Indian region. Indian J. Remote Sensing, v. 30, no. 3, p.117-118, 2002.
80. D. R. Mishra, A. K. Sahoo, R. Kanwar and R. P. Singh, Rain rate over ocean surrounding the Indian sub-continent using MSMR data. Proceedings of the Pan Ocean Remote Sensing Conference (PORSEC 2002), v. II, p. 550 - 554.
81. S. Dey and R. P. Singh, Aerosol Parameters using OCM data over the Arabian Sea and the Bay of Bengal. Proceedings of the Pan Ocean Remote Sensing Conference (PORSEC 2002), v. II, p 692– 696, 2002.
82. R. P. Singh, Sudipa Roy and F. Kogan, Vegetation and temperature condition indices from NOAA-AVHRR data for drought monitoring over India. Int. J. Remote Sensing, v. 24, no. 22, p. 4393-4402, 2003.
83. R.P. Singh, S. Dey and B. Holben., Aerosol behavior in Kanpur during Diwali festival, Current Science, v. 84, no. 10, p. 1302-1304, 2003.
84. R.P. Singh and Dimitar Ouzounov, Two Years After Gujarat Earthquake: Earth Processes are Reviewed from Space. EOS AGU, v. 84, no. 26, p. 244, 2003
85. S. Dey and R. P. Singh, Comparison of chlorophyll distributions in the northeastern Arabian Sea and southern Bay of Bengal using IRS-P4 Ocean Color Monitor Data. Remote Sensing Environment, v. 85, no. 4, p. 424-428, 2003
86. S. Dey and R.P. Singh, Surface Latent Heat Flux as an earthquake precursor, Natural Hazards and Earth System Sciences, v. 3, no. 6, p.749 - 755, 2003

**During my stay at George Mason University as a Distinguished Visiting Professor (2004-2005)**

87. S. Sun, Z. Liu, L. Chiu, R. Yang, R.P. Singh and M. Kafatos, 2004, Anomalous Cold Water along the Mid-Atlantic Coast during Mid-Summer, EOS Trans, Vol. 85, No. 15, 13.
88. Singh, RP; Dey, S; Sahoo, AK, et al., 2004, Retrieval of water vapor using SSNM and its relation with the onset of monsoon, Annales Geophysicae, v. 22, 8, 3079-3083.
89. Dey, S; Sarkar, S; Singh, RP,, 2004, Comparison of aerosol radiative forcing over the Arabian Sea and the Bay of Bengal, CLIMATE CHANGE PROCESSES IN THE STRATOSPHERE, EARTH-

ATMOSPHERE-OCEAN SYSTEMS, AND OCEANOGRAPHIC PROCESSES FROM SATELLITE DATA, 33, 7, 1104-1108.

90. Dash, J; Steinle, E; Singh, RP, et al., 2004, Automatic building extraction from laser scanning data: an input tool for disaster management, MONITORING OF CHANGES RELATED TO NATURAL AND MANMADE HAZARDS USING SPACE TECHNOLOGY, v. 33, 3, 317-322.
91. Dey, S; Sarkar, S; Singh, RP, 2004, Anomalous changes in column water vapor after Gujarat earthquake, Monitoring of Changes Related to Natural and Manmade Hazards Using Space Technology, 33 (3), 274-278.
92. Okada, Y; Mukai, S; Singh, RP, 2004, Changes in atmospheric aerosol parameters after Gujarat earthquake of January 26, 2001, Monitoring of Changes Related to Natural and Manmade Hazards Using Space Technology, v. 33 (3), 254-258.
93. Cervone, G; Kafatos, M; Napoletani, D, and Singh, RP, 2004, Wavelet maxima curves of surface latent heat flux associated with two recent Greek earthquakes, NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, v. 4 (3), 359-374.
94. Singh, RP; Dey, S; Tripathi, SN, et al., 2004, Variability of aerosol parameters over Kanpur, northern India, J. Geophys. Res. – Atmospheres, v. 109, D23, Article Number: D23206.
95. Dey, S; Tripathi, SN; Singh, RP, et al., 2004, Influence of dust storms on the aerosol optical properties over the Indo-Gangetic basin, J. Geophys. Res. v. 109, Article Number: D20211.
96. Sarkar, S; Singh, RP; Kafatos, M., 2004, Further evidences for the weakening relationship of Indian rainfall and ENSO over India, Geophys. Res. Lett., v. 31 (13), Article Number: L13209.
97. Mishra, D; Dey, S; Singh, RP, 2004, Emissivity of various geological terrains using IRS P4 MSMR data, J. Geol. Soc. India, v. 63 (4), 453-457..
98. Singh, UK; and Singh, RP, 2004, Qualitative study of coast effect on MV and MT measurements in the western coast of India, J. Geol. Soc. Of India, v. 63 (1), 88-94.
99. Dey, S; Tripathi, SN; Singh, RP, et al., 2005, Seasonal variability of the aerosol parameters over Kanpur, an urban site in Indo-Gangetic basin, ATMOSPHERIC REMOTE SENSING: EARTH'S SURFACE, TROPOSPHERE, STRATOSPHERE AND MESOSPHERE – I, v. 36 (5), 778-782,
100. Tripathi, SN; Dey, S; Chandel, A, Singh, RP, et al., 2005, Comparison of MODIS and AERONET derived aerosol optical depth over the Ganga Basin, India, Ann. Geophysicae, v. 23 (4), 1093-1101.
101. Cervone, G; Singh, RP; Kafatos, M, et al., 2005, Wavelet maxima curves of surface latent heat flux anomalies associated with Indian earthquakes, NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, v. 5 (1), p. 87-99.

**During my stay at IIT Kanpur (2005-2007)**

102. Singh, V.P. and Singh, R.P., 2005, Changes in stress pattern around epicentral region of Bhuj earthquake of 26 January 2001, Geophy. Res. Letter, v. 32 (24), Article Number: L2430923.
103. Mishra, VD; Mathur, P; Singh, RP, 2005, Qualitative and quantitative analysis of snow parameters using passive microwave remote sensing, PHOTONIRVACHAK-J. Indian Soc. Remote Sensing, v. 33 (3), p. 381-393.
104. Prasad, AK; Singh, RP, 2005, Extreme rainfall event of July 25-27, 2005 over Mumbai, West Coast, India, PHOTONIRVACHAK-J. Indian Soc. Remote Sensing, v. 33(3), 365-370.
105. Sahoo, A; Sarkar, S; Singh, RP, et al., 2005, Declining trend of total ozone column over the northern parts of India, Int. J. Remote Sensing, v. 26 (16) Issue: 16 Pages: 3433-3440 Published: AUG 2005
106. Singh, R.P., 2005, Early warning of natural hazards using satellite remote sensing, Current Sci. v. 89 (4), 592-593.
107. Singh, R.P. 2005, Measures of progress in science and technology, Current Sci., v. 88, (12), 1873-1873,
108. Singh, RP; Mishra, DR; Sahoo, AK, et al., 2005, Spatial and temporal variability of soil moisture over India using IRS P4 MSNIR data, Int. J. Remote Sensing, v. 26 (10), 2241-2247.

109. Singh, RP; Tare, V; Tripathi, SN, 2005, Aerosols, clouds and monsoon, Current Sci., v. 88 (9), 1366-1368.
110. Singh, R.P., 2005, Future earthquakes and other natural hazards: Impact on people living in the Ganga basin, Current Sci., v. 88 (7), 1025-1025.
111. Tahbildar, UC; Singh, RP, 2005, Hydro-electric power plant projects in northeastern India, Current Sci., v. 88 (6), 850-850.
112. Gautam, R; Singh, RP; Kafatos, M., 2005, Changes in ocean properties associated with Hurricane Isabel Int. J. Remote Sensing, v: 26 (3), 643-649.
113. Sarkar, S., Chokngamwong, R., Cervone, G., Singh, R.P. and Kafatos, M., 2006, Variability of aerosol optical depth and aerosol forcing over India, Advances in Space Research, 37, Issue 12, Pages 2153-2159.
114. Bhuiyan, C; Singh, RP; Kogan, FN, 2006, Monitoring drought dynamics in the Aravalli region (India) using different indices based on ground and remote sensing data, Int. J. Applied Earth Observation and Geoinformation, v. 8 (4), 289-302.
115. Cervone, G; Maekawa, S; Singh, RP, et al., 2006, Surface latent heat flux and nighttime LF anomalies prior to the M-w=8.3 Tokachi-Oki earthquake, Natural Hazards ad Earth System Sciences, v. 6 (1), 109-114.
116. Cervone, G; Kafatos, M; Napoletani, D, and Singh, R.P., 2006, An early warning system for coastal earthquakes, NATURAL HAZARDS AND OCEANOGRAPHIC PROCESSES FROM SATELLITE DATA, v. 37 (4), 636-642.
117. El-Askary, H; Gautam, R; Singh, RP, et al., 2006, Dust storms detection over the Indo-Gangetic basin using multi sensor data, NATURAL HAZARDS AND OCEANOGRAPHIC PROCESSES FROM SATELLITE DATA, v. 37 (4), 728-733.
118. Pradhan, B; Singh, RP; Buchroithner, MF, 2006, Estimation of stress and its use in evaluation of landslide prone regions using remote sensing data, Source: NATURAL HAZARDS AND OCEANOGRAPHIC PROCESSES FROM SATELLITE DATA, v. 37 (4), 698-709.
119. Singh, R.P., 2006, Early warning of natural hazards using space technology, NATURAL HAZARDS AND OCEANOGRAPHIC PROCESSES FROM SATELLITE DATA, v. 37 (4), 635-635.
120. Singh, RP; Dey, S; Bhoi, S, et al., 2006, Anomalous increase of chlorophyll concentrations associated with earthquakes, NATURAL HAZARDS AND OCEANOGRAPHIC PROCESSES FROM SATELLITE DATA, v. 37 (4), 671-680.
121. Prasad, AK; Kumar, KV; Singh, S, and Singh R. P., Potentiality of multi-sensor satellite data in mapping flood hazard, PHOTONIRVACHAK-J. Indian Soc. Remote Sensing, v. 34 (3), 219-231.
122. Singh, RP, 2006, INSA in the growth of Indian science, Current Sci., v. 91 (3), 258-259.
123. Prasad, AK; Singh, RP; Singh, A., 2006, Seasonal climatology of aerosol optical depth over the Indian subcontinent: trend and departures in recent years, Int. J. Remote Sensing, v. 27 (12), 2323-2329.
124. Prasad, AK; Singh, RP; Kafatos, M, 2006, Influence of coal based thermal power plants on aerosol optical properties in the Indo-Gangetic basin, Geophys. Res. Lett., v. 33 (5), Article Number: L05805.
125. Dey, S; Tripathi, SN; Singh, RP, et al., 2006, Retrieval of black carbon and specific absorption over Kanpur city, northern India during 2001-2003 using AERONET data, Atm. Environment, 40 (3), p. 445-456.
126. Prasad, AK; Chai, L; Singh, RP, et al., 2006, Crop yield estimation model for Iowa using remote sensing and surface parameters, Int. J. Applied Earth Observation and Geoinformation, 8, issue 1, 26-33.
127. Prasad, AK; Sarkar, S; Singh, RP, et al., 2007, Inter-annual variability of vegetation cover and rainfall over India, Advances in Space Res., v.39, issue 1, 79-87.
128. Prasad, AK; Singh, RP; Tare, V, et al., 2007, Use of vegetation index and meteorological parameters for the prediction of crop yield in India, Int. J. Remote Sensing, 28, 5207-5235.
129. Prasad, A.K., Singh, R.P., Singh, S., and Nanda, D.S., 2007, GPS and satellite meteorology for understanding monsoon dynamics over the Indian sub-continent, Quantification and Reduction of Predictive Uncertainty for

Sustainable Water Resources Management (Proceedings of Symposium HS2004 at IUGG2007, Perugia, July 2007). IAHS Publ. 313, 2007, pp. 33-39.

130. Prasad, AK; Singh, S; Chauhan, SS, Singh, RP, Singh R., 2007, Aerosol radiative forcing over the Indo-Gangetic plains during major dust storms, *Atm. Environment*, v. 41, 6289-6301.
131. Bhattacharjee, PS; Prasad, AK; Kafatos, M, and Singh, RP, 2007, Influence of a dust storm on carbon monoxide and water vapor over the Indo-Gangetic Plains, *J. Geophys. Res.- Atm.*, v. 112, D18, Article Number: D18203.
132. Singh, RP; Cervone, G; Kafatos, M, et al., 2007, Multi-sensor studies of the Sumatra earthquake and tsunami of 26 December 2004, *Int. J. Remote Sensing*, v. 28, 13-14, 2885-2896.
133. Prasad, AK; Singh, RP., 2007, Changes in aerosol parameters during major dust storm events (2001-2005) over the Indo-Gangetic Plains using AERONET and MODIS data, *J. Geophys. Res. Atm.*, v. 112, D9, Article Number: D09208.
134. Kayetha, VK; Senthilkumar, J; Prasad, AK, et al., 2007, Effect of dust storm on ocean color and snow parameters , *PHOTONIRVACHAK-JOURNAL OF THE INDIAN SOCIETY OF REMOTE SENSING*, v. 35 (1), 1-9.
135. Prasad, AK; and Singh, RP, 2007, Comparison of MISR-MODIS aerosol optical depth over the Indo-Gangetic basin during the winter and summer seasons (2000-2005), *Remote Sensing of Environment*, v. 107, 1-2, Special Issue: SI 109-119.
136. Singh, RP; Cervone, G; Singh, VP, et al., 2007, Generic precursors to coastal earthquakes: Inferences from Denali fault earthquake, *Tectonophysics*, v. 431, 1-4, 231-240.
137. R. P. Singh, V. Tare and S.N. Tripathi, 2005, International Conference on Aerosols, Clouds and the Indian Monsoon, EOS, *TRANSACTIONS AMERICAN GEOPHYSICAL UNION*, VOL. 86, NO. 24, doi:10.1029/2005EO240006, 2005

#### **During my stay at GMU as Professor (2007-2009)**

138. Prasad, A.K. and R.P. Singh, 2007, Changes in Himalayan Snow and Glacier Cover Between 1972 and 2000, EOS, *TRANSACTIONS AMERICAN GEOPHYSICAL UNION*, v. 88, no. 33, doi:10.1029/2007EO330002.
139. Singh, RP; Prasad, AK; Kayetha, VK, et al., 2008, Enhancement of oceanic parameters associated with dust storms using satellite data, *J. Geophys. Res.*, v. 113, C11, Article Number: C11008.
140. Prasad, AK; Singh, RP., 2009, Validation of MODIS Terra, AIRS, NCEP/DOE AMIP-II Reanalysis-2, and AERONET Sun photometer derived integrated precipitable water vapor using ground-based GPS receivers over India *J. GEOPHY. RES.* Volume: 114 Article Number: D05107.

#### **After Joining Chapman University as of Feb. 2009**

141. Bhuiyan, C., Flügel, W.A., and Singh, R.P., 2009, Erratic Monsoon, Growing Water Demand, and Declining Water Table, *Journal of Spatial Hydrology*, Vol.9, No.1 Spring 2009, pp. 1 – 19.
142. Bhuiyan, C., R. P. Singh and W. A. Flugel, 2009, Factors controlling groundwater recharge in the mountainous hard-rock Aravalli terrain, *Hydrology in Mountain Regions: Observations, Processes and Dynamics*, IAHS Publ. 326, pp. 105-111
143. Bhuiyan, C., Singh, R.P. and Flügel, W.A 2009, Modelling of ground water recharge-potential in the hard-rock Aravalli terrain, India: a GIS approach, *Environmental Earth Sciences*, v. v. 59, no. 4, December, 2009, 929-938.
144. Dasgupta, S; Singh, RP; Kafatos, M, 2009, Comparison of global chlorophyll concentrations using MODIS data, *Adv. Space Res.* v. 43 Issue: 7 Pages: 1090-1100.
145. Gautam, R; Liu, ZY; Singh, RP, et al., 2009, Two contrasting dust-dominant periods over India observed from MODIS and CALIPSO data, *Geophy. Res. Lett.*, 36, Article Number: L06813, 2009
146. Kumar, Sanjay, Singh, A.K., Prasad, A.K. and Singh, R.P., 2009, Annual Variability of water vapor from GPS and MODIS data over the Indo-Gangetic Plains. *J. Ind. Geophy. Union*, v. 13, no. 1, pp. 17-23.
147. Mishra, V. D., Negi, H. S., Rawat, A. K., Chaturvedi, A., and Singh, Ramesh P., 2009, Retrieval of sub-pixel snow cover information in the Himalayan region using medium and coarse resolution remote sensing data, *Int. J. Remote Sensing*, 30, Issue: 18 Pages: 4707-4731.

148. Singh, RP; Kumar, R; Tare, V, 2009, Variability of soil wetness and its relation with floods over the Indian subcontinent, *Can. J. Remote Sensing*, 35 Issue: 1 Pages: 85-97, 2009,
149. Tang, D., Zhao, Hui, Satyanarayana, B., Zheng, Guangming, Singh, Ramesh P., Lv, Jianhai, and Yan, Zhongzheng, 2009, Variations of chlorophyll-a in the northeastern Indian Ocean after the 2004, South Asian tsunami, *Int. J. Remote Sensing*, 30, Issue: 17, Pages: 4553-4565.
150. Singh, R.P., 2010, Satellite observations of the Wenchuan Earthquake, 12 May 2008, *International J. Remote Sensing*, v. 31, no. 13, p. 3335-3339.
151. Singh, R.P., Mehdi, W., and Chauhan, A., 2010, "Inter-annual variability of Chl-a along the Western Coast of Africa, Proceedings "Oceans From Space" Venice 2010, Extended Abstracts of the Contributions presented at the "Oceans form Space" Symposium Scuola Grande di San Giovanni Evangelista, Venice (Italy), 26-30 April 2010, V. Barale, J.F.R. Gower, L. Alberotanza, eds, pp. 209-210.
152. Eck, T.F., Holben, B.N., Sinyuk, A., Pinker, R.T., Goloub, P., Chen, H., Chatenet, B., Li, Z., Singh, R.P., Tripathi, S.N., Reid, J.S., Giles, D.M., Dubovik, O., O'Neill, N.T., Smirnov, A., Wang, P., and Xia, X., 2010. "Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures", *J. Geophys. Res.*, 115, D19205, doi:10.1029/2010JD014002 .
153. Kanwar, V.S., Kwatra, N., Aggarwal, P., and Singh, R.P., 2010, Use of vibration Measurements in health monitoring of reinforced concrete buildings, *International Journal of Structural Integrity*, V. 1, no. 3, 209 – 232.
154. Kumar, R. and Singh, R., 2010, Understanding climate change from glaciers, *J. Commodity Vision*, V. 3, no. 6, 2-7, 2010 (non peer-reviewed Journal).
155. Prasad, A.K. and Singh, R . P. 2010, Chlorophyll, Calcite, and Suspended Sediment Concentrations in the Bay of Bengal and the Arabian Sea at the River Mouths, *Advances in Space Research*, 45, 2010, p. 61–69,
155. Shah, S., Guttikunda, S. and Singh, R.P, 2010, Himalayan climate change threatens regional stability. Can India help?, *The Christian Science Monitor*, October 22, 2010 (news article).
156. Singh RP, Mehdi W, and Sharma M.. 2010, Complementary nature of surface and atmospheric parameters associated with Haiti earthquake of 12 January 2010, *Natural Hazards and Earth System Sciences*, v. 10, no. : 6, P. 1299-1305, 2010.
157. Singh RP, Mehdi W, Gautam R, Senthil Kumar J., Zlotnicki. J. and Kafatos, M., 2010, Precursory signals using satellite and ground data associated with the Wenchuan Earthquake of 12 May 2008, *Int. J. Remote Sensing*, v. 31, no. 13, p. 3341-3354.
158. Singh, R. P. and Prashant Chaturvedi, 2010, Comparison of chlorophyll concentration in the Bay of Bengal and the Arabian Sea using IRS-P4 OCM and MODIS Aqua, *Indian J. Marine Science*, v. 39, 3, pp. 334-340.
159. Singh, R.P., 2010, Interactive comment on "Inferring absorbing organic carbon content from AERONET data" by A. Arola et al., *Atmos. Chem. Phys. Discuss.*, 10, no. 8, 18365-18388 (online available).
160. Singh, R.P., Kumar, J., Zlotnicki, J., and Kafatos, M., 2010, Satellite detection of carbon monoxide emission prior to the Gujarat earthquake of 26 January 2001, *J. of Applied Geochemistry*, 25, p. 580-585.
161. Giles, D., B.N. Holben, S. N. Tripathi, T. Eck, W. Newcomb, I. Slutsker, R. Dickerson, A.Thompson, S. Mattoo, S.-H. Wang, R. Singh, A. Sinyuk, and J. Schafer, 2011, Aerosol Properties over the Indo-Gangetic Plain: A Mesoscale Perspective from the TIGERZ Experiment, *Geophysic Res.* doi:10.1029/2011JD015809,
162. Kaskaoutis, D. G, Kharol, S.K., Sinha, P. R., Singh, R.P., Badarinath, K. V. S., Mehdi, W., and Sharma, M., 2011, Contrasting aerosol trends over South Asia during the last decade based on MODIS observations, *Atmos. Meas. Tech. Discuss.*, 4, 5275-5323, 2011.
163. Kaskaoutis, D. G., Kharol, S. K., Sinha, P. R., Singh, R. P., Kambezidis, H. D., Sharma, A. R., and Badarinath, K. V. S., 2011, Extremely large anthropogenic-aerosol contribution to total aerosol load

- over the Bay of Bengal during winter season, *Atmospheric Chem. and Physics*, v. 11, no. 14 P.: 7097-7117 DOI: 10.5194/acp-11-7097-201.
164. Shaiganfar, R., Beirle, S., Sharma, M., Chauhan, A., Singh, R.P., and Wagner, T., 2011, Estimation of NOx emissions from Delhi using car MAX-DOAS observations and comparison with OMI satellite data, *ACPD*, 19179-19212.
  165. Singh, R.P., 2011, Report on the Workshop “Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV)”, *The IUGG Electronic Journal*, v. 11, no. 2, p. 3-4 (Meeting Report)
  166. Singh, Ramesh P.; Mehdi, Waseem; Naeimi, Majid; et al., 2011, Analysis of widespread fissures associated with groundwater depletion and extreme rainfall using multi sensor data, *IAHS*, Volume: 343 Pages: 28-33 Published: 2011 (peer reviewed Proceedings).(listed in Web of Science).
  167. Singh, A.P., Singh, R.P., Raju, P.V. S., and Bhatla, R. 2011, The impact of three different cumulus parameterization schemes on the Indian summer monsoon circulation, *The International Journal of Ocean and Climate Systems*, v. 2, 1, 27-41.
  168. Eck, T. F.; Holben, B. N.; Reid, J. S.; Giles, D. M.; Rivas, M. A.; Singh, R. P.; Tripathi, S. N.; Bruegge, C. J. et al., 2012, Fog- and cloud-induced aerosol modification observed by the Aerosol Robotic Network (AERONET), *J. Geophys. Res.*, 117 Article Number: D07206 DOI: 10.1029/2011JD016839 Published: APR 5 2012.
  169. Kaskaoutis, D. G.; Gautam, R.; Singh, R. P.; et al., 2012, Influence of anomalous dry conditions on aerosols over India: Transport, distribution and properties, *J. Geophys. Res.*, 117, DOI: 10.1029/2011JD017314 Published: MAY 2 2012.
  170. Kaskaoutis, D., Singh, R.P., Gautam, R., Sharma, M., Kosmopoulos, P. G. and Tripathi, S.N., 2012, Variability and trends of aerosol properties over Kanpur, northern India using AERONET data (2001–10), *Environ. Res. Lett.* 7 (2012) 024003.
  171. Kumar, S., Kumar, S., Singh, A.K. and Singh, R.P., 2012, Seasonal variability of atmospheric aerosol over the North Indian region during 2005–2009, *Advances in Space Research*, 50, 2012, 1220–1230.
  172. Prasad, A.K., Singh, R.P. and Kafatos, M., 2012, Influence of coal-based thermal power plants on the spatial–temporal variability of tropospheric NO<sub>2</sub> column over India, *Environmental Monitoring and Assessment*, Volume: 184 Issue: 4 Pages: 1891-1907 DOI: 10.1007/s10661-011-2087-6 Published: APR 2012.
  173. Singh, R. P. and Sharma, M., 2012, Enhancement of BC concentration associated with Diwali festival in India. *IGARSS 2012*, published by IEEE, p. 3685-3688 (peer reviewed IEEE Proceedings)
  174. Singh, R.P., 2012, Glaciers, Snow melt and Runoff in the Himalayas - Report on the outcomes of a Trans-Himalayan workshop held at ICIMOD in Kathmandu, Nepal, 6-7 Feb 2012(based on my contribution a report was prepared, I was Chair of the Panel discussion on Black Carbon). (Report)
  175. Singh, R. P., 2012, Insight: how do aerosols vary over Northern India? <http://environmentalresearchweb.org/cws/article/news/49628> (peer reviewed Journal, the Editorial Board asked me to write an Insight)
  176. Singh, Ramesh P.; Sharma, Manish; Kaskaoutis, Dimitris G., 2012, Changes in Surface Irradiance and Meteorological Parameters Associated with the Annular Solar Eclipse of 15 January 2010, *Radiation Processes in the Atmosphere and Ocean (IRS2012)* Book Series: AIP Conference Proceedings Volume: 1531 Pages: 600-603 DOI:10.1063/1.4804841 Published: 2013 Book Editor(s): Cahalan, RF; Fischer, J (Peer Reviewed) included in web of science.
  177. Kumar, Sanjay; Singh, A. K.; Prasad, A.K., Singh, R.P., 2013, Variability of GPS derived water vapor and comparison with MODIS data over the Indo-Gangetic plains, *Phys. And Chemistry of the Earth*, pages: 11-18 DOI: 10.1016/j.pce.2010.03.040 Published: 2013.
  178. Kharol, Shailesh Kumar; Kaskaoutis, D. G.; Badarinath, K. V. S.; Rani, Anu and Singh R.P., 2013, Influence of land use/land cover (LULC) changes on atmospheric dynamics over the arid region of Rajasthan state, India, *J. of Arid Environments*, 88, p.: 90-01 DOI: 10.1016/j.jaridenv.2012.09.006,
  179. SK Kharol, DG Kaskaoutis, AR Sharma, RP Singh, Long-term (1951–2007) rainfall trends around six Indian cities: current state, meteorological, and urban dynamics *Advances in Meteorology* 2013

180. Singh, R.P., 2013, IUGG GRC Conference on Extreme Natural Hazards and Their Impacts, Volume 13 No. 3 (1 March 2013), p. 1-2. (Report, non peer reviewed report).
181. Is dust pollution speeding up melting of Himalayan glaciers? based on session organized by me at DACA-13 held in Davos, Switzerland, July 8-13, 2013. I proposed to form a working group on Dust and Black carbon which was accepted by IACS.
182. Kaskaoutis, D.G., Sinha, P. R., Vinoj, V., Kosmopoulos, P.G., Tripathi, S.N., Misra, A., Sharma, M. and Singh, R. P., 2013, Aerosol properties and radiative forcing over Kanpur during severe aerosol loading conditions, *Atmospheric Environment*, V. 79, November 2013, Pages 7- 19.
183. Singh, R.P., 2013, Multi geophysical parameters for earthquake forecasting, *Current Science*, December 2013, 105 (12).
184. Singh, R.P., 2013, Impacts of U.S. Government Shutdown on Earth Science Teaching and Education, *Eos*, Vol. 94, No. 48, 26 November 2013 (peer reviewed weekly News Letter).
185. Sharma, M., et al., 2014, Seasonal Variability of Atmospheric Aerosol Parameters over Greater Noida Using Ground Sun Photometer Observations. *Aerosol and Air Quality Research*, 2014. 14(3): p. 608-622.
186. Kaskaoutis, D.G., et al., 2014, Effects of crop residue burning on aerosol properties, plume characteristics, and long-range transport over northern India. *Journal of Geophysical Research-Atmospheres*, 2014. 119(9): p. 5424-5444.
187. Kaskaoutis, D.G., Houssos, E. E., Goto, D., Bartzokas, A., Nastos, P. T., Sinha, P. R., Kharol, S. K., Kosmopoulos, P. G., Singh, R. P., Takemura, T., 2014, Synoptic weather conditions and aerosol episodes over Indo-Gangetic Plains, India. *Climate Dynamics*, 2014. 43(9-10): p. 2313- 2331.
188. Singh, R.P. and Kaskaoutis, D.G., 2014, Crop-residue burning in Punjab: A Serious Air Quality and Health Hazard in South Asia, *EOS*, Article first published online: 16 SEP 2014 | DOI: 10.1002/2014EO370001 (AGU Peer reviewed publication, Feature article which is considered as a good achievement).
189. Wang, Mengya; Cao, Chunxiang ; Li, Guoshuai; Singh, Ramesh P., 2015, Analysis of a severe prolonged regional haze episode in the Yangtze River Delta, China, *Atmospheric Environment*, 102, 112-121,
190. Cui, Wang, L., Qu, S., Singh, R.P., Lai, Z., and Yao, R., 2019, Spatiotemporal extremes of temperature and precipitation during 1960-2015 in the Yangtze River Basin (China) and impacts on vegetation dynamics, *Theoretical and Applied Climatology* <https://doi.org/10.1007/s00704-018-2519-0>
- Wang, Mengya; Cao, Chunxiang ; Li, Guoshuai; Singh, Ramesh P., 2015, [Analysis of a severe prolonged regional haze episode in the Yangtze River Delta, China, Atmospheric Environment](#), 102, 112-121,
- Cui, L., Wang, L., Singh, R.P., Lai, Z., Jiang, L., and Yao, R., 2018, [Association analysis between spatiotemporal variation of vegetation greenness and precipitation/temperature in the Yangtze River Basin \(China\)](#), *Environmental Science and Pollution Research*, doi.org/10.1007/s11356-018-2340-4, v 25 Issue: 22, Pages: 21867-21878.
191. Ye, Qing; Singh, Ramesh P.; He, Anhua; Ji, Shouwen ; Liu, Chunguo, 2015, Characteristic behavior of water radon associated with Wenchuan and Lushan earthquakes along Longmenshan fault, *Radiation Measurements*, 76, 44-53,
192. Bhattacharjee, Partha S.; Singh, Ramesh P.; Nedelec, Philippe; 2015, Vertical profiles of carbon monoxide and ozone from MOZAIC aircraft over Delhi, India during 2003-2005, *Meteorology and Atmospheric Physics*, 127, 2, 229-240.

193. Kumar, Sarvan ; Kumar, Sanjay; Kaskaoutis, D. G.; Singh, Ramesh P.; Singh, Rajeev K.; Mishra, Amit K. ; Srivastava, Manoj K. ; Singh, Abhay K., 2015, Meteorological, atmospheric and climatic perturbations during major dust storms over Indo-Gangetic Basin, *Aeolian Research*, 17, 15-31.
194. Wang, Lunche; Gong, Wei; Singh, Ramesh P.; et al., 2015, Aerosol Optical Properties over Mount Song, a Rural Site in Central China, *Aerosol and Air Quality Research*, V. 15, no. 5 , 2051-2064.
195. Ahmed, R. and Singh, R.P., 2016, Attenuation relation predicted observed ground motion of Gorkha Nepal earthquake of April 25, 2015, *Natural Hazards*, 80, 311-328, DOI: 10.1007/s11069-015-1969-2,
196. Kanwar, V. S., Singh, R.P., Kwatra, N., Aggarwal, P., 2016, Monitoring of RCC structures affected by earthquakes, *Geomatics, Natural Hazards and Risk*, 7, p. 37-64, DOI: 10.1080/19475705.2013.866984.
197. Cao, Chunxiang; Liu, Di; Singh, Ramesh P.; et al., 2016, Integrated detection and analysis of earthquake disaster information using airborne data, *Geomatics, Natural Hazards and Risk*, V. 7, no. 3, 1099-1128.
198. Cao, C., Ni, X., Wang, X., Lu, S., Zhang, Y., Dang, Y., and Singh, R.P., 2016, Allometric scaling theory-based maximum forest tree height and biomass estimation in the Three Gorges reservoir region using multi-source remote-sensing data, *Int. J. Remote Sensing*, 37, no. 5, 1210–1222.
199. Scavo, A.N. and Singh, R.P., 2016, Effect of climate change on California fish species, *IEEE-IGRASS 2016 Conference Proceedings*, pp. 6070-6073.
200. Ahmad, R.A., and Singh, R.P., 2016, Use of remote sensing and topographic slope in evaluating seismic site-conditions in Damascus region, *IEEE- IGRASS 2016 Conference*, pp. 5777- 5780.
201. Sharma, M., Singh, R.P. and Kumar, R., 2016, Dynamical Characteristics of Atmospheric Aerosols over IG region, Proc. of SPIE Vol. 9876 98761B-1, *Remote Sensing of the Atmosphere, Clouds, and Precipitation VI*, edited by Eastwood Im, Raj Kumar, Song Yang, Proc. of SPIE Vol. 9876, 98761B, © 2016 SPIE · CCC code: 0277-786X/16/\$18, doi: 10.1117/12.2224033, (peer reviewed Proceedings).
202. He, A., Singh, R.P., Sun, Z., Ye, Q. and Zhao, G., 2016, Comparison of regression methods to compute atmospheric pressure and earth tidal coefficients in water level associated with Wenchuan Earthquake of 12 May 2008, *Pure and Applied Geophysics, Pure Appl. Geophys.* 173 (2016), 2277–2294 DOI: 10.1007/s00024-016-1310-3.
203. Singh, R.P. and Sarkar, S., 2016, Lingering impact of Methane Emission from Aliso Canyon Using Satellite Data, eLetter, *Science*.
204. Singh, R.P. and Samara, 2016, Dust on Glacier, <https://landsat.gsfc.nasa.gov/article/dust-glacier>
205. Sarkar, S. and Singh, R.P., 2016, June 19 2015 Rainfall Event Over Mumbai: Some Observational Analysis, *Journal of the Indian Society of Remote Sensing*, V.: 45, Issue: 1, P.: 185-192, DOI: 10.1007/s12524-016-0572-7.
206. He, A., Zhao, G., Sun, Z., Singh, R.P, 2017, Co-seismic multilayer water temperature and water level changes associated with Wenchuan and Tohoku-Oki earthquakes in the Chuan no. 03 well China, *J. Seismology*, 21 (4), 719-734, DOI: 10.1007/s10950-016-9631-3.
207. Zheng, Sheng, Singh, R.P., Wu, Y. and Wu, C., 2017, A Comparison of Trace Gases and Particulate Matter over Beijing (China) and Delhi (India), *Water, Air and Soil Pollution*, 228, 5, Article Number: 181, DOI: 10.1007/s11270-017-3360-2
208. Ahmad, R., Singh, R.P., and Adris, A., 2017, Seismic hazard assessment of Syria using seismicity, DEM, slope, active faults and GIS, *Remote Sensing Applications: Society and Environment*, v. 6, 59-70.
209. Chauhan, A., Zheng, S., Xu, M., Cao, C., and Singh, R.P., 2016, Characteristic changes in aerosol and meteorological parameters associated with dust event of 9 March 2013, *Modeling Earth Systems and Environment, Model. Earth Syst. Environ.* (2016) 2:181, DOI 10.1007/s40808-016-0236-1.
210. Singh, R.P. and Sarkar, S., 2017, Methane and Carbon Monoxide emissions associated with Aliso Canyon ground storage blowout, *Proc. IEEE-IGRASS*, 978-1-5090-4951-6/17/\$31.00 ©2017 IEEE, 5950-5953.

211. Chauhan, A. and Ramesh P. Singh, 2017, Poor air quality and dense haze/smog during 2016 in the Indo-Gangetic plains associated with the crop residue burning and Diwali festival, IEEE-IGARSS 2017, 978-1-5090-4951-6/17/\$31.00 ©2017 IEEE, IGARSS 2017, pp. 6048-6051.
212. He, Anhua, Fan, X., Zhao, G., Liu, Y., Singh, R.P., and Hu, Y., 2017, Co-seismic Response of Water Level in the Jingle Well (China) Associated with the Gorkha Nepal (Mw 7.8) earthquake,, *Tectonophysics*, 714, pp. 82-89, doi: 10.1016/j.tecto.2016.08.019.
213. Sarkar, S., Singh, R.P., and Chauhan, A., 2018, Anomalous changes in meteorological parameters along the track of 2017 Hurricane Harvey, *Remote Sensing Letter.*, v. 9, 5, pp. 487-496, DOI: 10.1080/2150704X.2018.1441562.
216. Chauhan, A., de Azevedo, Samara C., Singh, R. P., 2018, Pronounced changes in air quality, atmospheric and meteorological parameters, and strong mixing of smoke associated with a dust event over Bakersfield, California, *Environmental Earth Sci.*, v. 77, 4, Article Number: 115, DOI: 10.1007/s12665-018-7311-z.
217. Kaskaoutis, D.G., Houssos, E.E., Solmon, F., Legrand, M., Rashki, A., Dumka, U.C., Francois, P., Gautam, R., and Singh, R.P., 2018, Impact of atmospheric circulation types on southwest Asian dust and Indian summer monsoon rainfall, *Atmospheric Res.*, v. 201, pp. 189-205, DOI: 10.1016/j.atmosres.2017.11.002.
218. Ni, X., Cao, C., Zhou, Y., Cui, X., and Singh, R.P., 2018, Spatio-Temporal Pattern Estimation of PM2.5 in Beijing-Tianjin-Hebei Region Based on MODIS AOD and Meteorological Data Using the Back Propagation Neural Network, *Atmosphere*, v. 9, 3, DOI: 10.3390/atmos9030105.
219. Kogan, F., Popova, Z., Singh, R. and Alexandrova, P., 2018, Early forecasting corn yield using ground truth data and vegetation health indices in Bulgaria, *Bulg. J. Agric Sci.*, 24 (Suppl. 2): 57-67.
220. Sarkar, S., Singh, R.P. and Chauhan, A., 2018, Crop Residue Burning in Northern India: Increasing Threat to Greater India, *Journal of Geophysical Research: Atmospheres*, *Crop Residue Burning in Northern India: Increasing Threat to Greater India*, *J. Geophysical Research: Atmospheres*, DOI: 10.1029/2018JD028428.
221. Sarkar, S., Singh, R.P., and Chauhan, A., 2018, Increasing health threat to greater parts of India due to crop residue burning, *Lancet Planetary Health*, Volume 2, Issue 8, August 2018, Pages e327-e328, [https://doi.org/10.1016/S2542-5196\(18\)30166-9](https://doi.org/10.1016/S2542-5196(18)30166-9).
222. Mohammad, Arif, Kumar, Rajesh, Kumar, Ramesh, Zusman, E., Singh, R.P. and Gupta, A. 2018, Assessment of indoor & outdoor black carbon emissions rural areas of Indo-Gangetic plain: Seasonal characteristics, source apportionment and radiative forcing, *Atmospheric Environment*, <https://doi.org/10.1016/j.atmosenv.2018.07.057>, v. 191 Pages: 227-240.
223. Lin, X., Xu, M., Cao, C., Singh, R.P., Chen, W. and Ju, H., 2018, Land-Use/Land-Cover Changes and Their Influence on the Ecosystem in Chengdu City, China during the Period of 1992–2018, *Sustainability*, v.10(10), 10.3390/su10103580.
224. Jing, Feng, Singh, R.P., Sun, Ke and Shen, X.H., 2018, Passive microwave response associated with two main earthquakes in Tibetan Plateau, China, *Advances in Space Research*, v. Volume: 62, 7, pp. 1675-1689, DOI: 10.1016/j.asr.2018.06.030.
225. Singh, R.P., Kumar, S. and Singh, A.K., 2018, Elevated Black Carbon Concentrations and Atmospheric Pollution around Singrauli Coal-Fired Thermal Power Plants (India) Using Ground and Satellite Data, *International J. Environmental Res. And Public Health*, v. 15, 11, Article Number: 2472, DOI: 10.3390/ijerph15112472.
226. Huang, Z., Xu, Min, Chen, W., Lin, X., Cao, C., and Singh, R.P., 2018, Postseismic Restoration of the Ecological Environment in the Wenchuan Region Using Satellite Data, *Sustainability*, v. 10, 11, DOI: 10.3390/su10113990.
227. Chauhan, A., Kumar, R. and Singh, R. P., 2018, Coupling between Land–Ocean–Atmosphere and Pronounced Changes in Atmospheric/Meteorological Parameters Associated with the Hudhud Cyclone of October 2014, *Int. J. Environ. Res. Public Health* 2018, 15(12), 2759; <https://doi.org/10.3390/ijerph15122759>.

228. Nath, B., Niu, Z. and Singh, R.P., 2018, Land Use and Land Cover Changes, and Environment and Risk Evaluation of Dujiangyan City (SW China) Using Remote Sensing and GIS Techniques Sustainability 2018, 10(12), 4631; <https://doi.org/10.3390/su10124631>.
229. He, Anhua; and Singh, R. P., 2019, Groundwater level response to the Wenchuan earthquake of May 2008, Geomatics, Natural Hazards and Risk, V 10, 1, p: 336-352 Published: JAN 1 2019
230. Tang, Danling; Sun, Jing; Zhou, Li; Singh, R. P., et al., 2019, Ecological response of phytoplankton to the oil spills in the oceans, Geomatics, Natural Hazards and Risk, V. 10 (1) Pages: 853-872 Published: JAN 1 2019
231. Feng, J., Singh, R.P. and Shen, X., 2019, Land - Atmosphere - Meteorological coupling associated with the 2015 Gorkha (M 7.8) and Dolakha (M 7.3) Nepal earthquakes, Geomatics, Natural Hazards and Risk, v. 10, V. 10, Issue: 1, 1267-1284, DOI: 10.1080/19475705.2019.1573629
232. Sarkar, S., Chauhan, A., Kumar, R. and Singh, R.P., 2019, "Impact of Deadly Dust Storms (May 2018) on Air Quality, Meteorological, and Atmospheric Parameters Over the Northern Parts of India", GeoHealth, v. 3, Issue: 3, 67-80, DOI: 10.1029/2018GH000170.
233. Ye, Q., Fan, Y., Du, X., Cui, T., Zhou, K., and Singh, R.P., 2018, Diurnal characteristics of geoelectric fields and their changes associated with the Alxa Zuoqi M(S)5.8 earthquake on 15 April 2015, Earthquake Science, 31, 35-43. doi: 10.29382/eqs-2018-0004-4 (Inner Mongolia)
234. Singh, Ramesh P.; Jing, Feng; Ye, Qing, 2019, Changes in Chlorophyll Conference: IEEE International Geoscience and Remote Sensing Symposium (IGARSS) Location: Yokohama, JAPAN Date: JUL 28-AUG 02, 2019, Sponsor(s): Inst Elect & Elect Engineers; Inst Elect & Elect Engineers, Geoscience & Remote Sensing Soc, 2019 IEEE Int. Geo. and Remote Sensing (IGARSS 2019) Book Series: IEEE International Symposium on Geoscience and Remote Sensing IGARSS, Pages: 9596-9599.
235. Feng, J. and Singh, R.P., 2019, Sensitivity of Land covers on Passive Microwave Brightness Temperature,, Conference: IEEE International Geoscience and Remote Sensing Symposium (IGARSS) Location: Yokohama, JAPAN Date: JUL 28-AUG 02, 2019, Sponsor(s): Inst Elect & Elect Engineers; Inst Elect & Elect Engineers, Geoscience & Remote Sensing Soc., 2019 IEEE Int. Geo. and Remote Sens.(IGARSS 2019) Book Series: IEEE International Symposium on Geoscience and Remote Sensing IGARSS, Pages: 9569-9572:
236. Feng, J. and Singh, R.P., 2020, Optical properties of dust and crop burning emissions over India using ground and satellite data Science of The Total Environment, available online 22 November 2019, Article 134476.
237. Otaibi, M.A., Farahat, A., Tawabini, B., Omar, M.H., Ramadan, E., Abuelgasim, A., and Singh, R.P., 2020, Long-Term Aerosol Trends and Variability over Central Saudi Arabia using Optical characteristics from Solar Village AERONET Measurements, Atmosphere, v. 10, issue 12, 10.3390/atmos10120752.
238. Huang, Z., Cao, C., Chen, Wei, Xu, M., Dang, Y., Singh, R.P., Bashir, B., Xie, Bo., and Lin, X., 2020, Remote Sensing Monitoring of Vegetation Dynamic Changes after Fire in the Greater Hinggan Mountain Area: the Algorithm and Application for Eliminating Phenological Impacts, Remote Sensing, 2020, 12(1), 156; <https://doi.org/10.3390/rs12010156>
239. Xie, Bo., Cao, C., Xu, M., Bashir, B., Singh, R.P., Huang, Z., and Lin, X., 2020, Regional forest volume estimation by expanding LiDAR samples using multi-sensor satellite data, Remote Sensing, V.12, issue 3, Article Number: 360, DOI: 10.3390/rs12030360,
240. He, A., Deng, W., Singh, R.P., Lyu, F., 2020, Characteristics of Hydroseismograms in Jingle Well, China, Journal of Hydrology (2020), doi: <https://doi.org/10.1016/j.jhydrol.2019.124529>
241. Feng, J. Singh, R.P., Cui, Y. and Sun, Ke, 2020, Microwave brightness temperature Characteristics of three strong earthquakes in Sichuan province, China, IEEE JSTARS, IEEE J. of Selected Topics in Applied Earth Observations and Remote Sensing, Volume: 13, Pages: 513-522, DOI: 10.1109/JSTARS.2020.2968568,

242. Gupta, S., Singh, N., Shukla, D. and Singh, R.P., 2019, Morphological Mapping of 13 August 2017 Kotropi Landslide using Images and Videos from Drone and Structure from Motion, Earth and Space Science Open Archive, <https://doi.org/10.1002/essoar.10501438.1>,
243. Nath, B., Wang, Z., Ge, Y., Islam, K., Singh, R.P., and Niu, Z., 2020, Land use and Land cover Change Modeling and Future Potential Landscape Risk Assessment Using Markov-CA Model and Analytical Hierarchy Process, *ISPRS International J. Geo-Information*, Volume: 9, Issue: 2, Article Number: 134, DOI: 10.3390/ijgi9020134,
244. Zheng, S., Shan, J., Singh, R.P., Wu, Y., Pan, J., Wang, Y. and Lichtfouse, E., 2020, High spatio-temporal heterogeneity of carbon footprint in Zhejiang Province, China from 2005 to 2015. Implications for climate change policies, *Environmental Chemistry Letters*, Volume: 18, Issue: 3, Pages: 931-939, DOI: 10.1007/s10311-020-00977-z,
245. Villa, V. and Singh, R.P., 2020, Hydraulic Fracturing Operation for Oil and Gas Production and Associated Earthquake Activities Across the United States, *Environmental Earth Sciences*, Volume: 79, Issue: 11, Article Number: 271, DOI: 10.1007/s12665-020-09008-0,
246. Chauhan, A., Singh, R.P., Dash, P. and Kumar, R., 2020, Impact of Tropical Cyclone "Fani" on Land, Ocean, Atmospheric and Meteorological Parameters, *Marine Pollution Bulletin*, Volume 162, January 2021, 111844, <https://doi.org/10.1016/j.marpolbul.2020.111844>.
247. Feng, J., Chauhan, A., Singh, R.P., and Dash, P., 2020, Changes in Atmospheric, Meteorological and Ocean Parameters Associated with the 12 January Taal Volcanic Eruption, *Remote Sensing*, Volume: 12, Article Number 1026, DOI: 10.3390/rs12061026
248. Rai, A., Singh, R.P., and Shukla, D.P., 2021, Source Characterization of Aerosols and Trends During 2000–2019 Over Delhi (India), *IGARSS 2020 - 2020 IEEE International Geoscience and Remote Sensing Symposium*, Waikoloa, HI, USA, 2020, pp. 5517-5520, doi: 10.1109/IGARSS39084.2020.9323348.
249. Chauhan, A., Singh, R., Kumar, R. and Dash, P., 2021, Change in Land and Ocean Parameters Along the Track of Tropical Cyclone Fani, *IGARSS 2020 - 2020 IEEE International Geoscience and Remote Sensing Symposium*, Waikoloa, HI, USA, 2020, pp. 5554-5557, doi: 10.1109/IGARSS39084.2020.9324323.
250. Singh, R.P., 2020, Earth observation and sustainable development goals, *Geomatics Natural Hazards and Risk*, Volume: 11, Issue: 1, DOI: 10.1080/19475705.2020.1784561.
251. Chauhan A, Singh R.P., 2020. Decline in PM2. 5 concentrations over major cities around the world associated with COVID-19. *Environmental Research* 109634, Volume: 187, DOI: 10.1016/j.envres.2020.109634
252. Singh, RP and Chauhan, AK, 2020, Impact of lockdown on air quality in India during COVID-19 pandemic, *Air Quality, Atmosphere and Health*, <https://doi.org/10.1007/s11869-020-00863-1>, Volume: 13, Issue: 8, Pages: 921-928, DOI: 10.1007/s11869-020-00863-1
253. Romana, H. K., Singh, R. P., and Shukla, D. P., 2020, Long term air quality analysis in reference to thermal power plants using satellite data in Singrauli Region, India, *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLIII-B3-2020, 829–834, <https://doi.org/10.5194/isprs-archives-XLIII-B3-2020-829-2020>, 2020.
254. Sun, Y.; Zheng, S.; Wu, Y.; Schlink, U.; Singh, R.P. Spatiotemporal Variations of City-Level Carbon Emissions in China during 2000–2017 Using Nighttime Light Data. *Remote Sens.* **2020**, *12*, 2916.
255. Chauhan, A.K. and Singh, R.P., 2021, Effect of Lockdown on HCHO and Trace Gases over India during March 2020, *AAQR*, Volume 21, Issue 4, Article Number 200445, DOI 10.4209/aaqr.2020.07.0445.
256. Meena, S.R., Ghorbanzadeh, O., Westen, C.J. van, Nachappa, T.G., Blaschke, T., Singh, R.P, Sarkar, R., 2021, Rapid mapping of landslides triggered by 2018 extreme monsoon rainfall in the Western Ghats, India applying a deep learning approach, *Landslides*, Volume 18, Issue 5, Page 1937-1950, Article Number 200445, DOI 10.1007/s10346-020-01602-4

257. Chauhan, AK, Singh, R.P., Kumar, R. and Dash, P., 2021, Dynamics of Amphan Cyclone and associated changes in Ocean, Land Meteorological and Atmospheric Parameters, Mausam, MAUSAM, 72, 1 (January 2021), 215-228.
258. Farahat, A., Chauhan, A., Otaibi, M.A., and Singh, R.P., 2021, Air Quality over major cities of Saudi Arabia during Hajj periods of 2019 and 2020, Earth Systems and Environment. DOI:0.1007/s41748-021-00202-z.
259. Jing, F. and Singh, R.P., 2021, Changes in Tropospheric Ozone Associated with Strong Earthquakes and Possible Mechanism, IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, Volume 14, Page 5300-5310, Article Number 200445 DOI 10.1109/JSTARS.2021.3080843, Published 2021.
260. Meena, S., Bhuyan, K, Chauhan, A.K. and Singh, R.P., 2021, Snow covered with dust after Chamoli rockslide: inference based on high-resolution satellite data, Remote Sensing Letters, Volume 12, Issue 7, Page 704-714, DOI 10.1080/2150704X.2021.1931532.
261. Meena, S. R., Bhuyan, K., Chauhan, A., and Singh, R.P., 2021, Changes in the flood plains and water quality along the Himalayan rivers after the Chamoli disaster of 7 February 2021, Int. J. Remote Sensing, VOL. 42, NO. 18, 6984–7001 <https://doi.org/10.1080/01431161.2021.1944696>
262. Meena, S.R., Chauhan, A., Bhuyan, K., and Singh, R.P., 2021, Chamoli disaster: pronounced changes in water quality and flood plains using Sentinel data. Environ Earth Sci., **80**, 601 (2021). <https://doi.org/10.1007/s12665-021-09904-z>.
263. Kim, J., Lin, Shih-Yuan, Singh, R.P., Lan, Lan, Yun, Hye-Won, 2021, Underground burning of Jharia coal mine (India) and associated surface deformation using InSAR data, International Journal of Applied Earth Observation and Geoinformation, Volume 103, 2021, 102524, ISSN 0303-2434, <https://doi.org/10.1016/j.jag.2021.102524>.
264. Mishra, R., Chauhan, A.K., Singh, R.P., Mishra, N.C., and Mishra, R., 2021, Improvement of Atmospheric Pollution in the Capital Cities of US during COVID-19, Modeling Earth Systems and Environment <https://doi.org/10.1007/s40808-021-01269-3>.
265. Zheng, Qi-Hui, Chen, Wei, Li, Si-Liang, Yu, Le, Zhang, Xiao, Liu, Lan-Fa, Singh, R. P., and Liu, Cong-Qiang, 2021, Accuracy comparison and driving factor analysis of LULC changes in coastal area using multi-source time-series remote sensing data in a coastal area, Ecological Informatics, 101457, ISSN 1574-9541, <https://doi.org/10.1016/j.ecoinf.2021.101457>.
266. Mao, W., Wu, L., Singh, Ramesh P., Qi., Yuan, Xie, B., Liu, Y., Ding, Y., Zhou. Z., and Li, J., 2022, Progressive Destabilization and Triggering Mechanism Analysis using Multiple Data for Chamoli Rockslide in 7 February 2021, Geomatics Natural Hazards and Risk. 13:1, 35-53, DOI: 10.1080/19475705.2021.2013960.
267. Meena, S.R., Soares, L. P. Grohmann, C.S., Westen, C-v, Bhuyan, K., Singh, R.P. Floris. M. and Catani, F. 2022, Landslide detection in the Himalayas using machine learning algorithms and U-Net, Landslides, 19 (5), 1209-1229.
268. Pandey, V.K., Kumar, Rajesh, Singh, R., Kumar, Rajesh, Rai, S.C., Singh, Ramesh P., Tripathi, A.K., A.K., Soni, V.K., Ali, S.N., Tamang, D., Latief, S.U., 2022, Catastrophic Ice-debris Flow in the Rishiganga River, Chamoli, Uttarakhand (India), Geomatics Natural Hazards and Risk, DOI: 10.1080/19475705.2021.2023661.
269. Feng Jing, Yueren Xu, and Ramesh P. Singh, 2022, Changes in Surface Water Bodies Associated with Madoi (China) Mw 7.3 Earthquake of 21 May 2021 Using Sentinel-1 data, IEEE Trans. Geoscience Remote Sensing, Volume 60, Article Number 4509111, DOI 10.1109/TGRS.2022.3170890.
270. Nath, B., Singh, Ramesh P., Gahalaut, V. and Singh, A.P., 2022, Dynamic relationship study between the observed seismicity and spatiotemporal pattern of lineament changes in Palghar, North Maharashtra (India). *Remote Sensing* 14, no. 1: 135. <https://doi.org/10.3390/rs14010135>.
271. Phuong, J., Riches, N.O., Calzoni, L., Datta, G., Duran, D., Lin, A., Singh, Ramesh P., Solomonides, A.E., Whysel, N.Y., Kavuluru, R., 2022, Toward Informatics-enabled Preparedness for

- Natural Hazards to Minimize Health Impacts of Climate Change, Journal of the American Medical Informatics Association. 29 (12) , pp.2161-2167.
272. Feng Jing, and Ramesh P. Singh, 2022, Response of surface and atmospheric parameters associated with the Iran M 7.3 earthquake, IEEE J. of Selected Topics in Applied Earth Observations and Remote Sensing 15, pp.5841-5852.
  273. Zheng, S., Schlink, U., Ho, K.-F., Singh, R. P., and Pozzer, A. (2021). Spatial distribution of PM2.5-related premature mortality in China. GeoHealth, 5, <https://doi.org/10.1029/2021GH000532>.
  274. Romana, H.K.; Singh, R.P.; Dubey, C.S.; Shukla, D.P. Analysis of Air and Soil Quality around Thermal Power Plants and Coal Mines of Singrauli Region, India. Int. J. Environ. Res. Public Health 2022, 19, 11560. <https://doi.org/10.3390/ijerph191811560>.
  275. Zou, Y.; Chen, W.; Li, S.; Wang, T.; Yu, L.; Xu, M.; Singh, R.P.; Liu, C.-Q. Spatio-Temporal Changes in Vegetation in the Last Two Decades (2001–2020) in the Beijing–Tianjin–Hebei Region. Remote Sens. 2022, 14, 3958. <https://doi.org/10.3390/rs14163958>.
  276. Kalra, S., Kumar, S., Mahala, B.K., Routray, A., Singh, R.P., Assessment of WRF-3DVAR data assimilation on simulation of heavy rainfall events associated with monsoon depressions over Bay of Bengal, Meteorology and Atmospheric Physics, v. 134, Issue 4 Article Number 68 DOI 10.1007/s00703-022-00892-8
  277. Khatri, P., Hayasaka, T., Holben, B.N., Singh, R.P., Letu, H., and Tripathi, S.N., 2022, Increased aerosols can reverse Twomey effect in water clouds through radiative pathway, Scientific Reports, <https://doi.org/10.1038/s41598-022-25241-y>
  278. Cui, L., Tang, W., Zheng, S., and Singh, R.P., 2023, Ecological Protection Alone is Difficult to Preserve Ecosystem Carbon Storage: An Evidence from Guangdong, China, Land, (under revision).
  279. Farahat, A., El-Kork, N., Singh, R.P., and Jing, F., 2023, Possible Overestimation of Nitrogen Dioxide Outgassing during the Beirut 2020 Explosion, Remote Sensing, (under revision).
  280. Chauhan, Akshansha; Acharjee, Shukla; Singh, Ramesh; and Holben, B., 2023, Dynamic Characteristics of Aerosol Optical Properties over Dibrugarh city in the North-Eastern Indian Region during 2018–2021, AAQR (revision review).
  281. Kim, J., Lin, S-Y, Singh, T., and Singh, R.P., 2023, InSAR Time Series Analysis to Evaluate Subsidence Risk of Monumental Chandigarh City (India) and Surroundings, IEEE Trans. On Geoscience and Remote Sensing (ongoing revision).

### **From the prow:**

Reflections On the 1900 Galveston Hurricane, Hurricane Harvey, and the Increase in Extreme Weather Events <https://fromtheprow.agu.org/reflections-1900-galveston-hurricane-hurricane-harvey-increase-extreme-weather-events/>

## **Blogs:**

- **April 2015 Nepal Earthquake was an Eye-Opener for the Region,**  
[\(<https://blogs.chapman.edu/scst/2015/10/15/2015-nepal-earthquake/>\)](https://blogs.chapman.edu/scst/2015/10/15/2015-nepal-earthquake/)
- **Radon Concentrations show no definite trend associated with Earthquakes in China**  
[\[https://www.bing.com/search?q=Radon+Concentrations+show+no+definite+trend+associated+with+Earthquakes+in+China+-+Schmid+College+of+Science+and+Technology+\\(chapman.edu&cvid=714ba0cd8f7b4138bb823866eb3318c6&pqlt=43&FORM=ANNAB1&PC=U531#\\)\]\(https://www.bing.com/search?q=Radon+Concentrations+show+no+definite+trend+associated+with+Earthquakes+in+China+-+Schmid+College+of+Science+and+Technology+\(chapman.edu&cvid=714ba0cd8f7b4138bb823866eb3318c6&pqlt=43&FORM=ANNAB1&PC=U531#\)](https://www.bing.com/search?q=Radon+Concentrations+show+no+definite+trend+associated+with+Earthquakes+in+China+-+Schmid+College+of+Science+and+Technology+(chapman.edu&cvid=714ba0cd8f7b4138bb823866eb3318c6&pqlt=43&FORM=ANNAB1&PC=U531#))
- **Co-seismic changes in water level observed in borehole located in China associated with Nepal Earthquake of 25 April 2015**  
[\[https://blogs.chapman.edu/scst/2016/09/15/co\\)\]\(https://blogs.chapman.edu/scst/2016/09/15/co\)](https://blogs.chapman.edu/scst/2016/09/15/co)
- **Simon STEM Scholar Attends AGU 2016 Fall Meeting**  
[<https://blogs.chapman.edu/scst/2016/12/16/simon-stem-scholar-attends-agu-2016-fall-meeting/>](https://blogs.chapman.edu/scst/2016/12/16/simon-stem-scholar-attends-agu-2016-fall-meeting/)
- **Professor Singh's Findings on Himalayan Glaciers Featured in Times of India**  
[<https://blogs.chapman.edu/scst/2013/08/07/professor-singh-himalayan-glaciers/>](https://blogs.chapman.edu/scst/2013/08/07/professor-singh-himalayan-glaciers/)
- **Schmid College to Host Free Earthquake Preparedness Conference**  
[<https://blogs.chapman.edu/community-relations/2018/10/25/schmid-college-to-host-free-earthquake-preparedness-conference/>](https://blogs.chapman.edu/community-relations/2018/10/25/schmid-college-to-host-free-earthquake-preparedness-conference/)
- **NASA Satellite Image With Claims Of Imminent Quake Triggers Scare**  
[<https://losangeles.cbslocal.com/2016/03/03/nasa-satellite-image-with-claims-of-imminent-quake-triggers-scare/>](https://losangeles.cbslocal.com/2016/03/03/nasa-satellite-image-with-claims-of-imminent-quake-triggers-scare/)
- **Excitements and Disappointments: The chance to present in Turkey on my algal bloom research**  
[<https://blogs.chapman.edu/scst/2016/10/15/excitements-and-disappointments-the-chance-to-present-in-turkey-on-my-algal-bloom-research/>](https://blogs.chapman.edu/scst/2016/10/15/excitements-and-disappointments-the-chance-to-present-in-turkey-on-my-algal-bloom-research/)
- **Is Ozone Gas an Earthquake Precursor?**  
[<https://www.livescience.com/17301-ozone-gas-earthquake-precursor-warning.html>](https://www.livescience.com/17301-ozone-gas-earthquake-precursor-warning.html)
- **Pandemic lockdown sensitizes New Delhi to earthquake risk**  
[\[https://temblor.net/earthquake-insights/pandemic-lockdown-sensitizes-new-delhi-to-earthquake-risk-10871/?fbclid=IwAR3Iao8YYt8f5i4b8-9RRWv2decwq-jqIQKQ6GNlynBmnE8e2\\\_DuL5cPZKA\]\(https://temblor.net/earthquake-insights/pandemic-lockdown-sensitizes-new-delhi-to-earthquake-risk-10871/?fbclid=IwAR3Iao8YYt8f5i4b8-9RRWv2decwq-jqIQKQ6GNlynBmnE8e2\_DuL5cPZKA\)](https://temblor.net/earthquake-insights/pandemic-lockdown-sensitizes-new-delhi-to-earthquake-risk-10871/?fbclid=IwAR3Iao8YYt8f5i4b8-9RRWv2decwq-jqIQKQ6GNlynBmnE8e2_DuL5cPZKA)
- **Schmid College of Science Professor Launches a New Journal**  
Schmid College of Science Professor Launches a New Journal - Journal of Geomatics, Natural Hazards and Risk is out now. - Schmid College of Science and Technology ([chapman.edu](http://chapman.edu))
- **International Scientists Gather at Chapman for Earthquake, Volcano Conference**  
"Electromagnetic Studies of Earthquakes and Volcanoes" will take place October 4th through 6th. - Schmid College of Science and Technology
- **Carbon monoxide may signal earthquake**  
[<https://www.natureasia.com/en/nindia/article/10.1038/nindia.2010.13>](https://www.natureasia.com/en/nindia/article/10.1038/nindia.2010.13)
- **Haiti data to help quake prediction - Nature India (natureasia.com)**  
[<https://www.natureasia.com/en/nindia/article/10.1038/nindia.2010.89>](https://www.natureasia.com/en/nindia/article/10.1038/nindia.2010.89)
- **Monsoon behind low magnitude earthquakes in India's west coast**  
[<https://www.natureasia.com/en/nindia/article/10.1038/nindia.2020.39>](https://www.natureasia.com/en/nindia/article/10.1038/nindia.2020.39)
- **Nepal quake revives appeal to lift ban on US geoscientist**  
[<https://www.natureasia.com/en/nindia/article/10.1038/nindia.2015.76>](https://www.natureasia.com/en/nindia/article/10.1038/nindia.2015.76)
- **Himalaya poised to rupture in mega earthquakes**  
[<https://www.natureasia.com/en/nindia/article/10.1038/nindia.2019.25>](https://www.natureasia.com/en/nindia/article/10.1038/nindia.2019.25)

- **Nepal quake relieves some built up strain from the region**  
<https://www.natureasia.com/en/nindia/article/10.1038/nindia.2015.54>
- **Was India hit by an ET object that caused mass extinction?**  
<https://www.natureasia.com/en/nindia/article/10.1038/nindia.2019.157>
- **Kerala susceptible to tremors after monsoon flood**  
<https://www.natureasia.com/en/nindia/article/10.1038/nindia.2019.114>
- **Increasing health threat to greater parts of India due to crop residue burning**  
[https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196\(18\)30166-9/fulltext](https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196(18)30166-9/fulltext)
- **Andhra floods may cause earthquakes: Scientist**  
<https://www.rediff.com/news/2000/aug/26ap2.htm>  
<http://www.indiaenvironmentportal.org.in/content/91908/ap-floods-can-cause-quakes-warns-scientist/>  
[https://zeenews.india.com/news/nation/andhra-floods-may-cause-earthquakes-scientist\\_935.html](https://zeenews.india.com/news/nation/andhra-floods-may-cause-earthquakes-scientist_935.html)
- **Hyderabad-Secunderabad shaken by quake**  
<https://www.rediff.com/news/2000/sep/17quake.htm>
- **Crop residue burning in North affecting rest of India too: study**  
<https://www.downtoearth.org.in/news/agriculture/crop-residue-burning-in-north-affecting-rest-of-india-too-study-60957>
- **Punjab's paddy straw burning impacts climate, health**  
[https://www.business-standard.com/article/news-ians/punjab-s-paddy-straw-burning-impacts-climate-health-114061000569\\_1.html](https://www.business-standard.com/article/news-ians/punjab-s-paddy-straw-burning-impacts-climate-health-114061000569_1.html)
- **Why Dust Storms are a growing threat**  
[http://timesofindia.indiatimes.com/articleshow/69392246.cms?utm\\_source=contentofinterest&utm\\_medium=text&utm\\_campaign=cppst](http://timesofindia.indiatimes.com/articleshow/69392246.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cppst)
- **Poor air quality over northern India from dust storms in May 2018**  
<https://india.mongabay.com/2019/05/poor-air-quality-over-northern-india-from-dust-storms-in-may-2018/>
- **Air pollution from crop residue burning in the north spreads across India**  
<https://india.mongabay.com/2018/07/air-pollution-from-crop-residue-burning-in-the-north-spreads-across-india/>
- **Air pollution soars during Diwali in rural Haryana**  
<https://india.mongabay.com/2018/11/air-pollution-soars-during-diwali-in-rural-haryana/>
- **Crop residue burning in North affecting rest of India too: study**  
<http://www.catchnews.com/environment-news/crop-residue-burning-in-north-affecting-rest-of-india-too-study-119964.html>
- **Impact of growing urbanization and air pollution on the regional climate over India**  
[https://home.iitk.ac.in/~ramesh/publications\\_pdf/Pages%205-11%20from%20IAUC014.pdf](https://home.iitk.ac.in/~ramesh/publications_pdf/Pages%205-11%20from%20IAUC014.pdf)
- **Coal-based power plants main source of pollution: Study**  
<https://www.hindustantimes.com/india/coal-based-power-plants-main-source-of-pollution-study/story-6Q5d3AgB4eFauqVC1aX2SO.html>
- **Plankton blooms linked to quakes**  
<http://news.bbc.co.uk/2/hi/science/nature/4750557.stm>
- **Study links plankton blooms to earthquakes**  
<https://phys.org/news/2006-05-links-plankton-blooms-earthquakes.html>
- **Crop Residue Burning: A Threat to South Asian Air Quality**  
<https://eos.org/features/crop-residue-burning-threat-south-asian-air-quality>
- **Power corrupts: Coal-based power plants cause haze over Indo-Gangetic plains**  
<https://www.downtoearth.org.in/news/power-corrupts-7509>

- **Aerial threat to Ganga basin**  
<https://www.downtoearth.org.in/news/aerial-threat-to-ganga-basin-9430>
- **400M Indians Endangered By Ozone Depletion**  
<https://www.spacedaily.com/news/ozone-05a.html>
- **How Dust Storms are Adding to Pollution Woes of North India**  
<https://weather.com/en-IN/india/news/news/2019-04-01-how-dust-storms-are-adding-to-pollution-woes-of-north-india>
- **Mega earthquake may catch India unprepared**  
<http://tehelka.com/mega-earthquake-may-catch-india-unprepared/>
- **ALERT! Devastating earthquake expected in North India, can claim several human lives**  
<https://english.newsnationtv.com/offbeat/news/earthquake-tremors-north-india-quake-seismologists-himalayas-cause-human-lives-richter-magnitude-221580.html>
- **Dust on Glaciers**  
<https://landsat.gsfc.nasa.gov/article/dust-glacier>
- **Under a Cloud**  
<http://www.thesundayindian.com/en/story/under-a-cloud/24/43501/>
- **Recent Trends in Melting Glaciers, Tropospheric Temperatures over the Himalayas and Summer Monsoon Rainfall over India**  
<https://na.unep.net/siouxfalls/publications/himalayas.pdf>

### Patents:

1. **Wavelet maxima curves of surface latent heat flux**  
 Patent no. US 20050229508 A1  
**Inventors: G. Cervone, M. Kafatos, D. Napoletani, R.P. Singh,**  
 Pub. No.: US 2010/0082260 A1, publication date 1 April 2010  
[patentimages.storage.googleapis.com/pdfs/US20050229508.pdf](http://patentimages.storage.googleapis.com/pdfs/US20050229508.pdf)
2. **Crop yield prediction using piecewise linear regression with a break point and weather and agricultural parameters,**  
 Patent no. US 7,702,597 B2, date 20 April 2010  
**Inventors – R.P. Singh, A.K. Prasad, V. Tare and M. Kafatos**  
[www.google.com/patents/US20050234691](http://www.google.com/patents/US20050234691)

### List of the most outstanding Technical Reports/Review Articles

R.P. **Singh**, Final Report on "Magnetotelluric and remote Sensing studies along Raipur to Jaipur traverse" sponsored under Deep Continental Study Program sponsored by the Department of Science and Technology, New Delhi.

R.P. Singh, Progress Report on "Magnetotelluric field study in Deccan trap region" sponsored by Oil and Natural Gas Commission, Dehradun (April 1989 - March 1990).

R.P. **Singh**, Final Report on "Magnetotelluric field study in Deccan trap region" sponsored by Oil and Natural Gas Commission, Dehradun (April 1989 - June 1992).

S.K. Jain, R.P. **Singh**, V.K. Gupta and A. Nagar, "Garhwal Earthquake of October 20, 1991", published by ERRI (USA), v. 26, no. 2, February 1992.

R.P. **Singh**, Report on COSPAR Symposium "Resource mapping and Geophysical Surveys, published in COSPAR News, 1992, p. 20-22.

R.P. Singh, Final report on Resistivity Structure of Puga Geothermal field" sponsored by Central Electricity Authority, New Delhi.

R.P. Singh, "Bridging the gap", **The Leading Edge**, v. 15, no. 4, p. 269 270.

R. P. Singh, "India: Strong in research and seeking chances to explore", **The Leading Edge**, v. 15, no. 4, p. 299.

## Recent Book

