

Publications

Title	Author	Journal	Year	Volume	ISSN/ISBN no/ doi	URL of the Journal Home Page
Effect of rain on millimetre wave propagation: a review	Rajasri Sen & M P Singh	Indian Journal of Physics (Int. Journal)	1998	72(B) 101-123	ISSN 0019-5480 http://arxiv.iacs.res.in:8080/jspui/bitstream/10821/5300/1/Effect%20of%20Rain%20on%20Millimeter-Wave_By%20Rajasri%20Sen.pdf	https://link.springer.com/journal/12648
Study of effective path length and path reduction factor over some stations in India	Rajasri Sen & M P Singh	Indian Journal of Radio & Space Physics	1998	27 66-70	ISSN 0367-8393; http://nopr.niscair.res.in/handle/123456789/35288	Old-URL http://or.niscair.res.in/index.php/IJRSP http://op.niscair.res.in/index.php/IJRSP
Statistics of one-minute rain rate distribution over India	Rajasri Sen & M P Singh	Indian Journal of Radio & Space Physics	1999	28 66-69	ISSN 0367-8393; https://www.semanticscholar.org/paper/Statistics-of-one-minute-rain-rate-distributions-in-Sen-Singh/bfd3355b7e3bf31931b98f3bbb208e4c466db546	Old-URL http://or.niscair.res.in/index.php/IJRSP http://op.niscair.res.in/index.php/IJRSP
Estimation of Cross Polarization over Some Stations in India	R Sen, P Geetha and S Uma	Indian Journal of Radio & Space Physics	2007	36 379-382	ISSN 0367-8393; https://www.semanticscholar.org/paper/Estimation-of-cross-polarization-due-to-rain-over-Jaiswal-Geetha/9a7465af32cd3c45682250911e3c148c8f95a949	Old-URL http://or.niscair.res.in/index.php/IJRSP http://op.niscair.res.in/index.php/IJRSP
Study of Z-R relation over Gadanki for different rainfall rates	R Sen, S Uma and A. Shantha Kumaran	Indian Journal of Radio & Space Physics	2009	38(3) 125	ISSN 0367-8393; https://www.semanticscholar.org/paper/Study-of-Z-R-relationship-over-Gadanki-for-rainfall-Jaiswal-Uma/c998d6c082f73a54ba1b4263e3d67ac6054772a8	Old-URL http://or.niscair.res.in/index.php/IJRSP

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Characteristics of South-West and North-East Monsoon Rainfall over Salem	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed, and Leena Zaveri	Indian Journal of Radio & Space Physics	2011	Vol. No.40 Oct-2011 Pg.257-266	ISSN 0367-8393; https://www.researchgate.net/publication/287597062_Characteristics_of_S-W_and_N-E_monsoon_rainfall_over_Salem	Old-URL http://or.niscair.res.in/index.php/IJRSP http://op.niscair.res.in/index.php/IJRSP
Global Scenario of Radar Bright Band	Sonia R Fredrick, Rajasri Sen Jaiswal, Neela V S, M Rasheed, and Leena Zaveri	Advances in geosciences (ADGEO) (Int.)	2011	Vol. 22 2011 Pg. 15-30	ISBN 978-981- 4355-30-8 DOI: 10.1142/9789814355315_0002	https://www.advances-in-geosciences.net/
Identification of Key parameters Producing Rainfall	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed Sowmya. V and Leena Zaveri	MAUSAM	2013	64 (2) pp. 281-296	ISSN 0252 – 9416; DOI: 10.54302/mausam.v64i2.685	Homepage: https://mausamjournal.imd.gov.in/index.php/MAUSAM
Study of TRMM-estimated freezing level height in the 36N-36S region	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed, and Leena Zaveri	Indian Journal of Geo-Marine Sciences	July 2016	44 (7)	0379-5136; https://www.researchgate.net/publication/305544032_Study_of_TRMM_estimated_freezing_level_height_in_the_36N_-_36S_region	http://op.niscair.res.in/index.php/IJMS
Identification of convective/ stratiform dominance over surface rainfall	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed	MAUSAM	2014	65(2) April '14 pp.219-232	ISSN 0252 – 9416; DOI: https://doi.org/10.54302/mausam.v65i2.978	Homepage: https://mausamjournal.imd.gov.in/index.php/MAUSAM

	Leena Zaveri and Sowmya. V					
Attenuation of TRMM Channel over Salem	Rajasri Sen Jaiswal & Sunakshi Jaiswal	International Journal of Climate Change: Impacts and Responses	2015	Vol 8, Issue 1	DOI: https://doi.org/10.18848/1835-7156/CGP/v08i01/37261 ISSN: 1835-7156 (Print)	https://on-climate.com/journal
Finding Signatures of Climate Change in Upper-Air Meteorological Elements	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed, and Leena Zaveri	International Journal of Climate Change: Impacts and Responses	2016	Vol8, Issue 3	March 04, 2016 ISSN: 1835-7156 (Print) DOI: https://doi.org/10.18848/1835-7156/CGP/v08i03/1-27	https://on-climate.com/journal
Study of freezing level height in the 35 N-35S region	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed, and Leena Zaveri	Indian Journal of Geo-Marine Sciences	2016	Vol 44, no. 7, July	http://nopr.niscpr.res.in/handle/123456789/44475	http://op.niscair.res.in/index.php/IJMS
Study of bright band height to freezing level	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed, and Leena Zaveri	Indian Journal of Geo-Marine Sciences	2018	Vol. 47 (06), June 2018, pp. 1240-1266	http://nopr.niscpr.res.in/handle/123456789/44475	http://op.niscair.res.in/index.php/IJMS
Characteristics of convective/stratiform dominance on surface rainfall over a few tropical locations	Rajasri SenJaiswal, M Siva, Neela VS, Rasheed M, and Thirumala Lakshmi	Journal of Earth System Sciences	2020	129 131	J. Earth Syst. Sci. (2020) 129:131 Indian Academy of Sciences https://doi.org/10.1007/s12040-020-01401-4	https://link.springer.com/journal/12040

Estimation of attenuation at TRMM precipitation radar channel	Thirumala Lakshmi K and Rajasri Sen Jaiswal	ICTACT Journal on Communication Technology	2020	Vol 11 (4) pp.2285-2291	10.21917/ijct.2020.03	https://ictactjournals.in/IJCT/IJCTEditorial.aspx
Rain-Induced Attenuation at Tropical Rainfall Measuring Precipitation Radar Channel over a Few Tropical and Extra-Tropical locations in India	Thirumala Lakshmi K and Rajasri Sen Jaiswal	Solid State Technology	2021	Vol 64 (2)	ISSN: 0038-111X https://solidstatetechnology.us/index.php/JSST/issue/view/52	https://www.solidstatetechnology.us/index.php/JSST
Study of GPS-retrieved integrated precipitable water over Bangalore	Rajasri Sen Jaiswal et al.	MAUSAM	2021	Vol 72, 3, July 2021, 553-570	551.577: 551.501.86 (540.61)	Homepage: https://mausamjournal.imd.gov.in/index.php/MAUSAM
In search of a location-centric rain-induced attenuation model	Rajasri Sen Jaiswal & Thirumala Lakshmi	Wireless Personal Communication	Jan '22	124, p315 –332	https://doi.org/10.1007/s11277-021-09357-4	https://link.springer.com/journal/11277
Linking the Solar Cycle and Earth's Climate	Rajasri Sen Jaiswal, M Vinotha, Thirumala Lakshmi	MAUSAM	July 23	74, 3 (July 2023), 607-620	doi.org/10.54302/mausam.v74i3.1383	Homepage: https://mausamjournal.imd.gov.in/index.php/MAUSAM
Spatial distribution of radar bright band intensity	R S Jaiswal, S R Fredrick, K T Lakshmi, M Rasheed & R Dobal	IJMS	Sep 22 issue, published in June'23	51 (9), 733-744	DOI: 10.56042/ijms.v51i09.2333	http://op.niscair.res.in/index.php/IJMS

S No	Title	Authors	Symposia	Organizer/ Year	ISBN No; doi
1	On the relationship between the surface meteorological	R Sen, P.Seetaramayya, S.Arulraj, J R Kulkarni & M P Singh	National Space Science Symposium, PRL, Ahmedabad	ISRO/1997	

	elements & freezing level				
2	A study of cross-polarisation of mm waves due to rain over a few stations in India	R Sen & M P Singh	29th mid-term Symposium on wideband wireless services, Nainital	IEEE/1998	ISBN 81-237-0914-5
3	Cross polarization study over India and its modification using the measured value of rain height	Rajasri Sen	IEEE proceeding on 6 th Int. Symp. On Antennas, Propagation and EM Theory, Beijing, China	IEEE/2003	0-7803-7831-8; DOI: 10.1109/ISAPE.2003.1276754
4	Study of radio wave propagation over Gadanki in 10-100 GHz	R Sen and P. Geetha	National Space Science Symposium, Andhra University	ISRO/2006	
5	Study of Z-R relationship over Gadanki for different rainfall rates	R Sen and S Uma	Eleventh International Workshop on technical aspects of MST Radar (MST -11)	National Atmospheric Research Laboratory, ISRO/ 2006	
6	Estimation of Cross Polarization over Few Stations in India	R Sen, P Geetha and S Uma	International Symposium on Computers and Devices for Communication(CODEC, 06), Calcutta University (paper published in IJRSP)	Calcutta Univ./ 2006	Abstract published
7	Radio wave propagation over Salem	R Sen, S Uma & Victor Antony Raj	American Institute of Physics conference Proceeding, International Symposium on rainfall rate and radio wave propagation, Salem	Sona College of Technology 2007	ISBN 978-0-7354-0433-5 ISSN: 0094-243X DOI: 10.1063/1.2767037
8	Rainfall Statistics Over India	R Sen, and S Uma	Conference: Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves and Workshop on Terahertz Technologies, 2007. MSMW '07. The Sixth International Kharkov, Ukraine Symposium on Volume: 1	Vol. 1, IEEE, URSI/ July 2007	ISBN 1-4244-1237-4 10.1109/MSMW.2007.4294692 Source IEEE Xplore

			Usikov Inst. of Radio Physics and Electronics, Ukraine		
9	Study of Rainfall in relation to meteorological elements	R Sen, C. Oswald and S Uma	4 th Annual Meeting of Asia Oceania Geosciences Society, Bangkok, Thailand	Asia Oceania Geo Science Society/ 2007	
	Effect of Rain on Millimeter - Wave Propagation - A Review	R. Sen M. P. Singh	American Institute of Physics conference Proceeding, International Symposium on rainfall rate and radio wave propagation, Salem	Sona College of Technology 2007	ISBN 978-0-7354-0433-5 ISSN: 0094-243X DOI: 10.1063/1.2767014
10	A New Approach to find Radar Reflectivity vs. Rainfall Rate	R Sen, and S Uma	International Symposium on climate and weather Kyoto University, Japan	Kyoto University, 2007 (paper accepted)	
11	Study of Rain Attenuation: Models Proposed and Measurements - A Review	R Sen and S Uma	International Astronautical Congress Hyderabad (Int.)	International Astronautical Society/2007 (paper accepted)	
12	Study of freezing level in relation to meteorological elements.	R Sen and S Uma	National Space science Symposium, Radio Astronomy Centre, NCRA-TIFR, Udhagamandalam	ISRO/2008 (Abstract published)	
13	Study of Radar Bright Band Over a Tropical Station	Rajasri Sen Jaiswal, Sonia R Fredrick, Neela V S, M Rasheed, and Leena Zaveri	9 th Conference on Coastal Atmospheric and Oceanic Prediction and Processes Maryland	American Meteorological Society, 27 Sep-1Oct 2010	No. 174513-1 J2.2, Joint Session 2, Advances in Remote Sensing and in-situ Observational Networks Tuesday, 28 September 2010, 10:30 AM-12:00 PM, Capitol D
14	Hourly rainfall statistics over few stations in India A	R Sen and S Uma	Int. Symp. on Atmospheric Physics and Technology, YV Univ.,	YV University/2008	Abstract published

	report		A.P.		
15	Total Rainfall in Relation to Meteorological Parameters over Trivandrum	R Sen and S Uma	IEEE Int. GeoSc. & Remote Sensing Symposium, MA, Boston, USA	NASA, IEEE, URSI, etc./2008	Print ISSN: 2153-6996 Electronic ISSN: 2153-7003 978-1-4244-2808-3/08/\$25.00 ©2008 IEEE DOI: 10.1109/IGARSS.2008.4779889
16	Monsoon signatures over Trivandrum	R Sen and S Uma	5 th annual Meeting Asia Oceania Geosciences Society, Korea (paper accepted)	Asia Oceania Geo Science Society/ 2008	
17	Rain height characteristics in rainy and nonrainy conditions over a tropical station	R Sen and S Uma	International Astronautical Congress, Glasgow, Scotland	International Astronautical Society/29 Sep-3 Oct'08	ISBN: 978-1-61567-160-1, Vol. 5, Pg. 3252
18	A Different Approach to Find Z-R Relationship	Rajasri Sen Jaiswal and M. Rasheed	MST-12, Canada	Canadian Association of Physicists & London Convention Centre, May 2009 (paper accepted, not presented)	
19	Comparison of TRMM Retrieved Rainfall Data with Rain gauge Data	Rajasri Sen Jaiswal and Rajeswari	AOGS, Singapore	Asia Oceania Geo Science Society Aug'2009 (paper accepted, not presented)	
20	Comparison of TRMM estimated Rainfall with ground truth over Calcutta	Animesh Maitra, Rajasri Sen Jaiswal, Sonia R Fredrick, Neela V S, Kaustav Chakraborty, Arpita Adhikari, Aniruddha Bhattacharya, M Rasheed, and Leena Zaveri	CODEC'09, Calcutta	Calcutta University 14-16 Dec'2009	Abstract published

21	Study of Rainfall in relation to Latent Heat Released, Liquid Water Content, and Surface Temperature	Rajasri Sen Jaiswal and M. Rasheed	International Astronautical Congress, Daejeon, Korea	International Astronautical Society 2009	ISBN: 978-1-61567-908-9, Vol. 4, Pg. 2670
22	Variability of South-West & North-East Monsoon Rainfall Statistics over Salem	Rajasri Sen Jaiswal, Sonia R Fredrick, Neela V S, M Rasheed, and Leena Zaveri	National Space Science Symposium Rajkot, Gujarat	ISRO, MoES 2010 Feb. 24-27	Abstract published
23	Global Scenario of Radar Bright Band	Sonia R Fredrick Rajasri Sen Jaiswal, Neela V S, M Rasheed, and Leena Zaveri	7th Asia Oceanic Geoscience Society Symposium, Hyderabad	Asia Oceanic Geoscience Society 5 -9 July 2010	ISBN: 978-981-4355-30-8 (hardcover) https://doi.org/10.1142/9789814355315_0002
24	Characteristics of Convective Rain over A Tropical Station	Neela V S, Rajasri Sen Jaiswal, Sonia R Fredrick, M Rasheed, and Leena Zaveri	NCAS Atmospheric Science Conference Manchester	American Meteorological Society 5-7 July 2010	
25	Prediction of rain on the basis of cloud liquid water, precipitable water, and latent heat	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed, and Leena Zaveri	International Conference on Climate Change and Environment Cochin (Accepted for publication as a chapter in a book by Springer)	National Institute of Science Communication And Information Resources (NISCAIR), Jawaharlal Nehru University (JNU), Coch in University of Science and Technology (CUSAT), UNESCO, SAARC	Abstract published

				Documentat ion Centre (SDC) and Union Territory of Lakshadwe ep) 24 Oct-27Oct 2010	
26	“Bright Band over the Indian Ocean”	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed Leena Zaveri and Sowmya. V	National Conference on Advances in Atmospheric Remote Sensing, Weather Prediction and climate Change. Tirupati, India	ISRO, March 10-11 2011	
27	“Study of radar bright band height and freezing level height”	Rajasri Sen Jaiswal, Sonia R Fredrick , Neela V S, M Rasheed Leena Zaveri and Sowmya.V	International Conference MST-13 Kuhlungsborn, Germany	Leibniz Institute of Atmospheric Physics 19-23 March 2012	ISBN 978-3-00- 044654-2 , Pg 131.
28	‘Section Earth System Science’ TRMM—estimated Meteorological Elements over the Indian Ocean	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed Leena Zaveri and Sowmya. V	100th Indian Science Congress, Kolkata	ISRO, MoES 3-7 Jan 2013	
29	Signatures of climate change in meteorological elements: study of cloud liquid water, precipitation water, and latent heat	Rajasri Sen Jaiswal, Neela V S, Sonia R Fredrick, M Rasheed Leena Zaveri	Climate Change Conference, Reykjavik, Iceland	Climate Change Knowledge Community, Common Ground, 27- 28 June 2014	
30	Invited Talk: TRMM- estimated Rainfall over Salem	Rajasri Sen Jaiswal	URSI International conference on Radio Science, New Delhi	URSI Nov’15	
31	Effect of El Nino/La Nina on Meteorological Elements	Rajasri Sen Jaiswal	International SPIE Asia- Pacific Remote sensing Conference	SPIE 2016	Proc. of SPIE Vol. 9876 98763T-2, 4- 7 April’16 http://dx.do

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32	Attenuation of TRMM channel over Salem	Rajasri Sen Jaiswal & Sunakshi Jaiswal	Climate Change Conference, Reykjavik, Iceland	Climate Change Knowledge Community, Common Ground, 27-28 June 2014	
33	Simultaneous radar and radiometric observations of meteorological elements over the Indian Ocean	Rajasri Sen Jaiswal, Punitha M & Jeevanandan S	8 th IPWG workshop, Bologna, Italy	IPWG 3-7 October 2016	
34	Effect of Solar Cycle on Earth's Climate	Rajasri sen Jaiswal and Vinotha R	URSI-RCRS conference on Radio Science, National Atmospheric Research Laboratory, Dept. of Space, Govt. of India, Tirupati, India,	URSI-RCRS 1-4 March 2017	Abstract published
35	Estimation of rain-induced attenuation at the microwave and millimeter wave frequencies	Thirumala Lakshmi K and Rajasri Sen Jaiswal	International conference on tropical meteorology, SAC, ISRO, Ahmadabad	Indian Meteorological Society, Space Applications Center, ISRO 7-10 November 2017	Abstract published- https://www.researchgate.net/profile/Sonal-Kumari-4/publication/334398268_Enhancement_in_surface_ozone_levels_at_a_suburban_site_associated_with_crop_residue_burning_in_Indo-Gangetic_Plain_A_case_study/links/5eb95040a6fdcc1f1dd06aad/Enhancement-in-surface-ozone-levels-at-a-suburban-site-associated-with-crop-residue-burning-in-Indo-Gangetic-Plain-A-case-study.pdf (Pg. 169-170)
36	Freezing level and bright band height over the Indian Ocean	Rajasri Sen Jaiswal, Sonia R Fredrick, and Rasheed M	SPIE Remote Sensing, Warsaw, Poland	SPIE 11-14 September 2017	Proc. of SPIE Vol. 10424 104240G-1 ISSN 0277-786X ISBN 9780819473905

37	Upper air meteorological elements and Rainfall over Salem	Rajasri Sen Jaiswal, Neela V. S., M. Rasheed, K. Thirumala Lakshmi, M. Mukundan	SPIE Remote Sensing, Berlin, Germany	SPIE Germany, 2018	XXIII, 107860S (1 November 2018); doi: 10.1117/12.2325583 ISSN 0277-786X ISBN 9780819473905
38	IRNSS Information Made Simple	Rajasri Sen Jaiswal, M. Mukundan & Thirumala Lakshmi	International Skynet Workshop	MoES, New Delhi, 2017	-
39	TRMM-retrieved rainfall mechanism over a few tropical locations	Rajasri Sen Jaiswal, Siva M, Rasheed M, Thirumala Lakshmi, Sunakshi Jaiswal	SPIE International Conference on Remote Sensing	SPIE Strasbourg, France, 2019	Proc. SPIE 11152, XXIV, 111520Y ISSN 0277-786X ISBN 9780819473905
40	IRNSS information for beginners	Sen Jaiswal, Rajasri, K., Thirumala Lakshmi, M., Mukundan, Dobal, Richa	SPIE International conference on Remote Sensing	SPIE Edinburg, 2020 (digital forum)	Proc. SPIE 11531, Remote Sensing of Clouds and the Atmosphere XXV, 115310O (20 September 2020); doi: 10.1117/12.2575993 ISSN 0277-786X ISBN 9780819473905
41	Study of tropospheric slant delay retrieved from the IRNSS	Sen Jaiswal, Rajasri, K., Thirumala Lakshmi, Dobal, Richa, M., Siva,	SPIE International Conference on Remote Sensing	SPIE Edinburg, 2020 (digital forum)	Proc. SPIE 11531, Remote Sensing of Clouds and the Atmosphere XXV, 115310I (20 September 2020); doi: 10.1117/12 ISSN 0277-786X ISBN 9780819473905.2573690
42.	Climatology of the subtropical high-pressure belt	Sen Jaiswal, Rajasri, Siva M, K., Thirumala Lakshmi, Rasheed M	SPIE International Conference on Remote Sensing	SPIE Madrid, September 2021	Volume 11859," Proc. SPIE 11859, Remote Sensing of

					Clouds and the Atmosphere XXVI, 1185901 (14 October 2021); doi: 10.1117/12.2614851 Event: SPIE Remote Sensing, 2021, pp. 1185901-22
43	Characteristics of southwest and northeast monsoon over a few locations in India	Rajasri Sen Jaiswal, M Siva, and M Rasheed	SPIE International Conference on Remote Sensing	SPIE Berlin, Germany, 5-7 September 2022	Proc. SPIE 12265, Remote Sensing of Clouds and the Atmosphere XXVII, 1226504 (28 October 2022); doi: 10.1117/12.2633920 Event: SPIE Remote Sensing, 2022, Berlin, Germany
44	Cloud characteristics over the Mediterranean Sea	Rajasri Sen Jaiswal & M Punitha	WMO Workshop	WMO Lisbon, Portugal, 20-22 September 2022	Abstract published
45	In Search of a Location-centric Freezing Height Model	Rajasri Sen Jaiswal, Thirumala Lakshmi and M Siva	SPIE International Conference on Remote Sensing	SPIE Amsterdam, The Netherland, 2023	Proc. SPIE 12730, Remote Sensing of Clouds, and the Atmosphere XXVIII, 1273008 (19 October 2023); doi: 10.1117/12.2678613, Event: SPIE Remote Sensing, 2023, Amsterdam, Netherlands