



Subin Jose

CONTACT INFORMATION	Space Physics Laboratory, VSSC, ISRO, Trivandrum, Kerala, India. 695 022	Mob:+91 8019785338 subinjose22@gmail.com
RESEARCH INTERESTS	Aerosol remote sensing, Aerosol cloud interaction, Aerosol radiative effect	
EDUCATION	Andhra University , Visakhapatnam, India Ph.D., Physics, 2017 <ul style="list-style-type: none">• Thesis Topic: <i>Aerosol radiative effect over an Urban location in south central peninsular India</i>• Advisor: Prof. K. Niranjana Kannur University , Kannur, India M.Sc., Physics, May 2009 <ul style="list-style-type: none">• Topic: <i>Simulation of Shrodinger wave equation for 1-D square well potential</i>• Advisor: Sri. Georgekutty P. Kuriakose B.Sc., Physics, May 2007	
RESEARCH EXPERIENCE	Post Doc [Research Associate] Space Physics Laboratory, Vikram Sarabhai Space Center, ISRO, Trivandrum,India Mentor: Dr. S. Suresh Babu	Jan 2020 onwards
	Post Doc [DST-SERB NPDF] Space Physics Laboratory, Vikram Sarabhai Space Center, ISRO, Trivandrum,India Mentor: Dr. S. Suresh Babu	Oct 2017-Oct2019
	Senior Research Fellow Dept of Physics, Andhra University, Visakhapatnam Supervisor: Prof. K Niranjana	Aug 2016 to March 2017
	Senior Research Fellow National Remote Sensing Center, ISRO, Dept of Space, Hyderabad Supervisor: Mr. Biswadip Gharai and Prof. K Niranjana	Aug 2013 to Aug 2016
	Junior Research Fellow National Remote Sensing Center, ISRO, Dept of Space, Hyderabad Supervisors: Mr. Biswadip Gharai	Aug 2011 to Aug 2013
TECHNICAL SKILLS	1. Knowledge in operating, handling and data analysis of the following state of art scientific instruments: MICROTOPS-II sun photometer, Aethalometer, Nephelometer, Micropulse Lidar, Quartz Crystal Microbalance (QCM), Multi Filter Rotating Shadow band Radiometer (MFRSR), UV-MFRSR, Pyranometer, Sun/Sky Radiometer, High volume Sampler.	

2. Experience in analysing satellite based products related to aerosols and related parameters from various sensors like MODIS, OMI, CALIPSO, Cloudsat, CERES, MeghaTropiques, INSAT-3D, KALPANA-1.etc.
3. Experience with radiative transfer codes like Santa Barbara DISORT Atmospheric Radiative Transfer model (SBDART) and Optical Properties of Aerosols and Clouds (OPAC).
4. Programming Languages : Matlab, Python, Grads, R
1. Madhav Haridas M.K, Biswadip Gharai, **Subin Jose** and Prajesh T (2019). Multi-year e observations of tropospheric NO2 concentrations over Indian region. Journal System Science.
2. Bran S.H., **Subin Jose.**, and Rohit. S (2018). Investigation of optical and radiative properties of aerosols during an intense dust storm: A regional climate modeling approach”. Journal of Atmospheric and Solar-Terrestrial Physics.
3. **Subin Jose.**, Biswadip Gharai., and P.V.N Rao (2016). “Cross sectional view of atmospheric aerosols over an urban location, Hyderabad, in central India”. *Aerosol and Air Quality Research* doi: 10.4209/aaqr.2016.04.0154.
4. **Subin Jose.**, Gharai, B., Niranjana, K., and Rao, P. V. N. (2016). “Investigation on seasonal variations of aerosol properties and its influence on radiative effect over an urban location in central India”. *Atmospheric Environment*, 133, 41-48.
5. **Subin Jose.**, Niranjana, K., Gharai, B., Rao, P. V. N., and Nair, V. S (2016). “Characterisation of Absorbing Aerosols Using Ground and Satellite Data at an Urban Location, Hyderabad”. *Aerosol and Air Quality Research*, 16: 14271440.
6. **Subin Jose.**, Gharai, B., Rao, P. V. N., and Dutt, C. B. S. (2016). Satellite based shortwave aerosol radiative forcing of dust storm over the Arabian Sea. *Atmospheric Science Letters*, 17(1), 43-50.
7. Sreenivas, G., Mahesh, P., **Subin Jose.**, Kanchana, A. L., Rao, P. V. N., and Dadhwal, V. K.: (2016). “Influence of Meteorology and interrelationship with greenhouse gases (CO₂ and CH₄) at a suburban site of India, *Atmos. Chem. Phys.*, 16, 3953-3967, doi:10.5194/acp-16-3953.
8. Midhuna, T. M., Gharai, B., **Subin Jose.**, and Rao, P. V. N. (2016). ”Study on Regional Variations of Aerosol Loading Using Long Term Satellite Data Over Indian Region.” Journal of the Indian Society of Remote Sensing: 1-13.
9. **Subin Jose.**, Biswadip Gharai., Y. Bhavanikumar and P.V.N Rao, (2015). “Radiative implication of a haze event over eastern India”. *Atmospheric Pollution Research* 6 (2015) 138146.
10. Mahesh P, P.Sujatha, C.B.S Dutt and **Subin Jose** (2015). “Comparitive study of tropospheric ozone derived from satellite data using different interpolation techniques”. *International Journal of Remote sensing*.
11. **Subin Jose** and Biswadip Gharai (2014). “Study on Black Carbon and Its Characterisation at an Urban Location, Hyderabad during 2010 to 2012”. *International Journal of Environmental Monitoring and Analysis*. Vol. 2, No. 2, 2014, pp. 100-105. doi: 10.11648/j.ijema.20140202.16.
12. Gharai, B., **Subin Jose.**, and Mahalakshmi, D. V, (2013). “Monitoring intense dust storms over the Indian region using satellite data -a case study. *International Journal of Remote sensing*. 34, 70387048.

PAPERS
PRESENTED IN
SYMPOSIUMS

1. **Subin Jose.**, D.Mahalakshmi and B.Gharai (2011). “Enhancement of pollution level during RTC bus strike, observed using ground based measurement at NRSC, Hyderabad”. Presented in TROPMET 2011,held in Hyderabad during 14-16th December 2011.
2. **Subin Jose** and B.Gharai (2012). “Chacterization of physical and optical properties of aerosols on a hazy day compare to clear and normal day and their influence on solar radiation-a case study over Hyderabad. Presented in IASTA 2012, held in Mumbai during 12-14 December 2012.
3. **Subin Jose.**, Midhuna T.M., Biswadip.Gharai and P.V.N Rao (2014). “Detection and monitoring of intense dust storm using contemporary satellite data. Presented in IGBP symposium held in Bangalore during February 2014.
4. **Subin Jose.**, Biswadip Ghara ., P. V. N. Rao and C. B. S. Dutt (2014). “Temporal heterogeneities of aerosol optical depth over Hyderabad using Ground and satellite based observations”. Presented in IASTA 2014 held in Varanasi.
5. **Subin Jose.**, Biswadip Ghara and P. V. N. Rao (2016). “Comparative Study on Black Carbon Emission over Urban and Rural locations in Southern India”. Presented in NSSS 2016 held in VSSC, Trivandrum.
6. **Subin Jose.**, Vijayakumar S Nair and S. Suresh Babu (2019). “Anti-Twomey effect observed over Northern Indian Ocean during South Asian Outflow”. Presented in NSSS 2016 held in VSSC, Trivandrum. Presented in NSSS 2019 held in SPPU, Pune.
7. **Subin Jose.**, Vijayakumar S Nair and S. Suresh Babu (2019). “ Multi-Satellite Observations on Continental Outflow of Aerosol over Northern Indian Ocean”. Presented in URSI 2019 held in Delhi.

AWARDS

- Junior Research Fellowship , ISRO Aug2011-Aug2013
- Doctoral Dissertation Fellowship, ISRO Aug2013-Aug2016
- National Post Doctoral Fellowship, DST-SERB Oct2017

TEACHING
EXPERIENCE

- Guest Lecturer June2017-Sep2017
Dept of Physics
Baselious College, Kottayam
MG University.
- Guest Lecturer June2010-Dec2010
Dept of Physics
Govt. Brennen college, Thalassery
Kannur University

PERSONAL
DETAILS

DOB: 22-01-1987; Nationality: Indian; Religion: Christian, Roman Catholic

REFERENCES

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