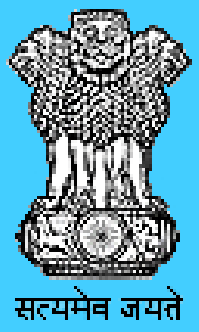

पृथ्वी विज्ञान मंत्रालय
MINISTRY OF EARTH SCIENCES

शोध पत्रों का प्रकाशन
Publications of Research Papers
2017

पृथ्वी विज्ञान मंत्रालय
Ministry of Earth Sciences
भारत सरकार
Government of India
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The Ministry of Earth Sciences (MoES), Government of India, is mandated to provide services for weather, climate, ocean and coastal state, hydrology, seismology, and natural hazards; to explore and harness marine living and non-living resources in a sustainable manner for the country and to explore the Arctic, Antarctic and the Himalayas. The MoES implements the various programs through the following schemes:

Scheme Name	**Abbreviation**
ACROSS	Atmospheric, Climate Science and Services
O-SMART	Ocean - Services, Modelling, Application, Resources and Technology
PACER	Polar Science and Cryosphere Research
SAGE	Seismology and Geosciences
REACHOUT	Research, Education, Training and Outreach
DOM	Deep Ocean Mission

The MoES is network of the following institutes:

Abbreviation	**Institute Name**	**Location**	**Website**
Subordinate Offices			
IMD	India Meteorological Department	New Delhi	https://mausam.imd.gov.in/
NCMRWF	National Centre for Medium Range Weather Forecasting	Noida, Uttar Pradesh	https://www.ncmrwf.gov.in/
Attached Offices			
CMLRE	Centre for Marine Living Resources & Ecology	Kochi, Kerala	https://www.cmlre.gov.in/
NCS	National Center for Seismology	New Delhi	https://seismo.gov.in/
NCCR	National Centre for Coastal Research	Chennai, Tamil Nadu	https://www.nccr.gov.in/
Autonomous			
NCPOR	National Centre for Polar and Ocean Research	Goa	https://ncpor.res.in/
INCOIS	Indian National Centre for Ocean Information Services	Hyderabad, Telangana	https://incois.gov.in/
IITM	Indian Institute of Tropical Meteorology	Pune, Maharashtra	https://www.tropmet.res.in/
NIOT	National Institute of Ocean Technology	Chennai, Tamil Nadu	https://www.niot.res.in/
NCESS	National Centre for Earth Science Studies	Thiruvananthapuram, Kerala	https://www.ncess.gov.in/

Note: The Ministry of Earth Sciences uploads year-wise publications on its website at www.moes.gov.in/publication which is a curated list of publications and journal titles. The publications enlisted in this document are already available individually in the public domain. These have been published after a rigorous international peer review process by domain experts. The primary objective of uploading a summarised year-wise list of publications is to provide the public and scholars with a ready summary list of academic journals that may offer valuable and credible sources for their research and reference

MoES Publications 2017

	ACROSS	OSMART	PACER	SAGE	TOTAL
Total no. of Publications	219	82	50	49	**400**

ACROSS

1. Abhik S., Krishna R.P.M., Mahakur M., Ganai M., Mukhopadhyay P., Dudhia J., 2017, Revised cloud processes to improve the mean and intraseasonal variability of Indian summer monsoon in climate forecast system: Part 1, **Journal of Advances in Modeling Earth Systems,** 9, DOI:10.1002/2016MS000819,1-28
2. Ali K., Trivedi D.K., Sahu S.K., 2017, Surface ozone characterization at Larsemann Hills and Maitri, Antarctica, **Science of the Total Environment, 584-585,** DOI:10.1016/j.scitotenv.2017.01.173, 1130- 1137
3. Alvim D.S., Pendharkar J., Capistrano V. B., Frassoni A., Enoré D.P., Neto O.L. de M., Gutierrez E.R., Dey Choudhury A., Kubota P.Y., Silva J., Correa S.M., Nobre P., Figueroa S.N., 2017, Aerosol distribution over Brazil with ECHAM-HAM and CAM5-MAM3 simulations and its comparison with ground-based and satellite data, **Atmospheric Pollution Research**, 8, DOI:10.1016/j.apr.2017.01.008, 718-728
4. Amudha B., Raj Y. E. A., Thampi S. B., 2017, A statistical analysis of the differences between rainfall estimated by Chennai DWR and conventional rainfall data on monthly and seasonal scales during the Indian northeast monsoon season,Mausam, 68,2, 261-278
5. Arushi P.V., Chakraborty A., Nanjundiah R.S., 2017, Orographic control of the Bay of Bengal cold pool rainfall, **Journal of Earth System Science**, 126:111, DOI:10.1007/s12040-017-0892-1
6. Ashok K., Shamal M., Sahai A.K., Swapna P., 2017, Nonlinearities in the evolutional distinctions between El Niño and La Niña types**, Journal of Geophysical Research**, 122, DOI:10.1002/2017JC013129, 9649-9662
7. Aslam M.Y., Krishna K.R., Beig G., Tinmaker **M.I.R.,** Chate D.M., 2017, Diurnal Evolution of Urban Heat Island and Its Impact on Air Quality by Using Ground Observations (SAFAR) over New Delhi, **Open Journal of Air Pollution,** 6, DOI:10.4236/ ojap.2017.62005,52-64
8. Aslam M.Y., Rama Krishna K., Beig G., Tinmaker M.I.R., Chate D.M., 2017, Seasonal variation of urban heat island and its impact on air-quality using SAFAR observations at Delhi, India, **American Journal of Climate Change,** 6, DOI:10.4236/ ajcc.2017.62015, 294-305
9. Attri S.D., 2017, Global and Regional Climate Change Perspective, **Climate Change, Resource Conservation and Sustainability Strategies,** A. Kaushik et al. (eds.), DBH Publishers and Distributors, New Delhi, IBSN: 9789384871086,1-9.
10. Attri S.D., Tiwari Suresh, Ray K., 2017, Challenges and opportunities of climate change and sustainable Agriculture: A review, **VayuMandal,43,**1,23-37.
11. Balaji B., Prabha T.V., Jaya Rao Y., Kiran T., Dinesh G., Chakravarty K., Sonbawne S.M., Rajeevan M., 2017, Potential of collocated radiometer and wind profiler observations for monsoon studies, **Atmospheric Research,** 194, DOI:10.1016/ j.atmosres.2017.04.023,17-26
12. Bhalwankar R., Deshpande C.G., Kamra A.K., 2017, Breakup modes of the drops suspended in a vertical wind tunnel in presence of the horizontal electric field, **Journal of Geophysical Research,** 122, DOI:10.1002/ 2016JD025805, 1838-1849
13. Bhaskar V.V., Lahogaonkar S.M., 2017, Long term aerosol characterization over

Kodaikanal, a high altitude station in SouthIndia, **Mausam,** 68(4), 738-744.

14. Bhaskar V.V., Rao P.S.P., 2017, Annual and decadal variation in chemical composition of rain water at all the ten GAW stations in India, **Journal of Atmospheric Chemistry,** 74(1),DOI:10.1007/ s10874-016-9339-3,23-53
15. Bhaskar V.V., Soni V.K., Panicker A.S., 2017, Long term characteristics of aerosols over Pune, central India - Effect on radiative forcing, **Mausam,68(1),** 119-130
16. Bhat M.A., Romshoo S.A., Beig G., 2017, Aerosol black carbon at an urban site-Srinagar, northwestern Himalaya, India: Seasonality, sources, meteorology & radiative forcing, **Atmospheric Environment**, 165, DOI:10.1016/j.atmosenv.2017.07.004, 336-348
17. Bhavani T.S.D., Chowdary J.S., Bharathi G.,Srinivas G., Prasad K.V.S.R., Deshpande A., Parekh A., Gnanaseelan C., 2017, Response of the tropical Indian Ocean SST to decay phase ofLa Ni-na and associated processes, **Dynamics of Atmospheres and Oceans,** 80, DOI:10.1016/ j.dynatmoce.2017.10.005, 110- 123
18. Bisht D.S., Srivastava A.K., Joshi H., Ram K.,Singh N., Naja M., Srivastava M.K., Tiwari S, 2017, Chemical characterization of rainwater at a high-altitude site Nainital in the central Himalayas, India, **Environmental Science and Pollution Research,** 24, DOI:10.1007 / s11356-016-8093-z, 3959-3969
19. Budhavant KB., Rao P.S.P., Safai P.D., 2017, Size distribution and chemical composition of summer aerosols over Southern Ocean and the Antarctic region, **Journal of atmospheric Chemistry,** 74, DOI:10.1007/ s10874-016-9356-2, 491-503
20. Burman Pramit Kumar Deb, Sarma D., Williams M., Karipot A., Chakraborty S., 2017, Estimating Gross Primary Productivity of a tropical forest ecosystem over north-east India using LAI and meteorological variables, **Journal of Earth System Science,** 126:99, DOI:10.1007/s12040-017-0874-3,1-16
21. Cerveny RS., Bessemoulin P., Burt C.C., Cooper M.A., Cunjie Z., Dewan A., Finch J., Holle R.L., Kalkstein L., Kruger A., Lee Tsz- cheung, Martinez R., Mahapatra M., Pattanaik D.R., Peterson T.C., Sheridan S.,Trewin B., Tait A., Wahab M.M.A., 2017, WMO assessment of weather and climate mortality extremes: Lightning, tropical cyclones, tornadoes and hail, **Weather, Climate and Society,** 9(3), DOI: 10.1175/WCAS-D-16-0120.1, 487-497
22. Chandrashekar V.D., Shetty A., Singh B.B., Sharma S., 2017, Spatio-temporal precipitation variability over Western Ghats and Coastal region of Karnataka, envisaged using high resolution observed gridded data, **Modeling Earth Systems and Environment,** 3, DOI:10.1007/s40808-017-0395-8, 1611-1625
23. Chanrion 0., Neubert T., Mogensen A., Yair Y.,Stendel M., Singh Rajesh, Siingh **D**., 2017, Profuse activity of blue electrical discharges at the tops of thunderstorms, **Geophysical Research Letters,** 44, DOI:10.1002/ 2016GL071311, 1-8
24. Chate D.M., Tinmaker M.I.R., Aslam M.Y., Ghude S.D., 2017, Climate indicators for lightning over sea, sea-land mixed and land-only surfaces in India, **International Journal of Climatology,** 37, DOI:10.1002/ joc.4802, 1672-1679
25. Ch ate D . M . , W a g **h** mare R . T . , Gopalakrishnan V., Murugavel P., Ghude S.D., 2017, Cloud Condensation Nuclei activity in the tropical marine regions during Indian southwest monsoon, **Journalof Aerosol Science,** 114, DOI:10.1016/ j.jaerosci.2017.09.022, 276-282
26. Chattopadhyay N., Devi S.S., John G., Choudhari V.R., 2017, Occurrence of hail storms and strategies to minimize its effect on crops, **Mausam,** 68(1), 75-92
27. Chattopadhyay N., Vyas S.S., Bhattacharya B.K, Tidke N.S., Dhangar N.G., 2017, Validation of soil moisture derived from water balance method and satellite observation, **Mausam,** 68(2), 279-286
28. Chattopadyay N., Guhathakurta, Pulak and Rathore, L. S., 2017, An Overview of Agricultural Drought in India, **Droughts andThe Way Forward,** 26-37.
29. Chowdary J.S., Harsha H.S., Gnanaseelan C., Srinivas G., Parekh A., Pillai P., Naidu C.V., 2017, Indian summer monsoon rainfall variability in response to differences in the decay phase of El Nifio, **Climate Dynamics, 48,** DOI:10.1007/ s00382-016-

3233-l, 2707-2727
30. Cretat J**.,** Terry P., Masson S., Sooraj KP., 2018, Intrinsic precursors and timescale of the tropical Indian Ocean Dipole: insights from partially decoupled numerical experiment, **Climate Dynamics,** 51, DOI:10.1007/s00382-017-3956-7, 1311-1332
31. Cretat **J.,** Terry P., Masson S., Sooraj KP., Roxy **M.K,** 2017, Indian Ocean and Indian summer monsoon: relationships without ENSO in ocean-atmosphere coupled simulations, **Climate Dynamics,** 49, DOI:10.1007/s00382-016-3387-x,1429-1448
32. Dandona Lalit, 167 India State-Level Disease Burden Initiative Collaborators, Beig G., 2017, Nations within a nation: variations in epidemiological transition across the states of India, 1990–2016 in the Global Burden of Disease Study, **Lancet**, 390, DOI:10.1016/S0140-6736(17)32804-0, 2437-2460
33. Das P., Dutta S., Mondal S.K, 2017, Mathematical model for the 3-D dynamics of lee wave across a meso-scale mountain corner, **Mausam,68,** 2,195-204
34. Das Subrata Kumar, Golhait RB., Uma **KN.,** 2017, Clouds vertical properties over the Northern Hemisphere monsoon regions from CloudSat-CALIPSO measurements, **Atmospheric Research,** 183, DOI:10.1016/ j.atmosres.2016.08.011,73-83
35. Das Subrata Kumar, Konwar M., Chakravarty K, Deshpande S.M., 2017, Raindrop size distribution of different cloud types over the Western Ghats using simultaneous measurements from Micro-Rain Radar and disdrometer, **AtmosphericResearch,186,** DOI:10.1016/ j.atmosres.2016.11.003, 72-82
36. Dave H., James M.E., Ray K., 2017, Trends in intense rainfall events over Gujarat State (India) in the warming environment using gridded and conventional data, **International Journal of Applied Environmental Sciences,**12(5), 977-998.
37. Debnath G.C., Das G.K., 2017, Verification of operational rainfall forecast over eastern India during southwest monsoon season, **Mausam,** 68, 2,327-334
38. Deshpande A, Gnanaseelan C., Chowdary J.S., Rahul S., 2017, Interannual spring Wyrtki jet variability and its regional impacts, **Dynamics of Atmospheres and Oceans,** 78, DOI:10.1016/ j.dynatmoce.2017.02.001, 26-37
39. Devi S., Ray K., 2017, Severe Weather Events: (January-June, 2017), **Vayumandal,43(1**),82-92.
40. Dharmaraj T., Patil M.N., Sukumaran Cini, Murthy B.S., Chinthalu C.R., Chandraseka E., Rajendran M., Siingh D., 2017,Temporal variation of carbon dioxide and water vapordensity over a station in west coast of Arabian Sea during sea breeze and land breeze, **Journal of Indian Geophysical Union,** 22, 66-78
41. Dimri AP., Chevuturi A, Niyogi D., Thayyen R.J., Ray Kamaljit, Tripathi S.N., Pandey A.K., Mohanty, U. C., 2017, Cloudbursts in Indian Himalayas: A review, **Earth-Science Reviews,** 168, DOI:10.1016/j.earscirev.2017.03.006,1-23
42. Dumka U.C., Kaskaoutis D.G., Sagar R., Chen J., Singh Narendra, Tiwari S., 2017, First results from light scattering enhancement factor over central Indian Himalayas during GVAX campaign, **Science of the Total Environment**, 605-606, DOI:10.1016/j.scitotenv.2017.06.138, 124-138
43. Dumka U.C., Tiwari Suresh, Kaskaoutis D.G., Hopke P.K., Singh Jagvir, Srivastava AK., Bisht D.S., Attri S.D., Tyagi S., Misra A, Pasha M.G.S., 2017, Assessment of PM2.5 chemical compositions in Delhi: primary vs secondary emissions and contribution to light extinction coefficient and visibility degradation , **Journal of Atmospheric Chemistry,** 74, DOI:10.1007/ s10874-016-9350-8,423-450
44. Dutta D., Kasimahanthi AJ., Mallick S., George J.P., Devarajan P.K., 2017, Quality assessment of VVP winds from Indian Doppler weather radars: a data assimilation perspective, **Journal of Applied remote sensing,** 11(3), 036021, DOI:10.1117 / l.JRS.11.036021
45. Fadnavis S., Chattopadhyay R., 2017, Linkages of subtropical stratospheric intraseasonal intrusions with Indian summer monsoon deficit rainfall, **Journal of Climate,** 30, DOI:10.1175/JCLI-D-16- 0463.1, 5083-5096
46. Fadnavis S., Kalita G., Ravi kumar K., Gasparini B., Frank Li J-L, 2017, Potential impact of carbonaceous aerosol on the upper troposphere and lower stratosphere (UTLS) and precipitation during Asian summer monsoon in a global model simulation, **Atmospheric**

Chemistry and Physics, 17, DOI:10.5194/acp-17-11637-2017,11637-11654

47. Fadnavis S., Roy C., Sabin T.P., Ayantika D.C., Ashok K., 2017, Potential modulations of pre monsoon aerosols during El Nifio: impact on Indian summer monsoon, **Climate Dynamics,** 49, DOI:10.1007 / s00382-016-3451-6,2279-2290
48. Ganesan AL., Rigby M., Lunt M.F., Parker R.J., Boesch H., Goulding N., Umezawa T., Zahn A, Chatterjee A, Prinn R.G., Tiwari **Y.K.,** Schoot Van der M., Krummel P.B., 2017, Atmospheric observations show accurate reporting and little growth in India's methane emissions, **Nature Communications,** 8:836, DOI:10.1038/ s41467-017-00994-7,1-7
49. Gautam AS., Siingh D., Kamra AK., 2017, Statistical analysis of the atmospheric ion concentrations andmobility distributions at a tropical station, Pune, **Quarterly Journalof Royal Meteorological Society,** 143, DOI:10.1002/ qj.3071, 2116-2128
50. Gawhane RD., Rao P.S.P., Budhavant K.B., Waghmare V., Meshram D.C., Safai P.D., 2017, Seasonal variation of chemical composition and source apportionment of PM2.5 in Pune, India, **Environmental Science and Pollution Research,** 24, DOI:10.1007 /s11356-017-9761-3, 21065-21072
51. Gayatri K., Patade S., Prabha T.V., 2017, Aerosol-Cloud interaction in deep convective clouds over the Indian Peninsulausing spectral (bin) microphysics, **Journal of Atmospheric Sciences,** 74, DOI:10.1175/JAS-D-17-0034.1, 3145-3166
52. Gera A, Mahapatra D.K., Sharma K., Satya Prakash, Mitra **A.K.,** Iyengar G.R., Rajagopal E.N., Anilkumar N., 2017, Assessment of marine weather forecasts over the Indian sector of Southern Ocean, **Polar Science,** 13, DOI: 10.1016/ j.polar.2017.04.003,1-12
53. Ghude S.D., Bhat G.S., Prabha T., Jenamani R.K., Chate D.M., Safai P.D., Karipot AK., Kanwar M., Pithani P., Sinha V., Rao P.S.P., Dixit S.A, Tiwari S., Todekar K., Varpe S., Srivastava AK., Bisht D.S., Murugavel P., Ali K., Mina U., Dharua M., Jaya Rao Y., Padmakumari B., Hazra A, Nigam N., Shende U., Lal D.M., et.al., Acharja P., Kulkarni R., Subharthi C., Balaji B., Varghese M., Bera S., Rajeevan M, 2017, Winter fog experiment over the Indo- Gangetic plains of India, **Current Science,** 112, DOI:10.18520/ cs/v112/i04/767- 784,767-784
54. Girach I. A, Ojha Narendra, Nair P. R., Pozzer A, Tiwari Y. K., Ravi Kumar K., LelieveldJ. ,2017, Variations in 03, CO, and CH4 over the Bay of Bengal during the summer monsoon season: shipborne measurements and model simulations, **Atmospheric Chemistry and Physics,** 17,DOI:10.5194/ acp-17-257-2017,257-275
55. Gnanaseelan C., Deshpande A, 2018, Equatorial Indian Ocean subsurface current variability in an Ocean General Grculation Model, **Climate Dynamics,** 50 DOI:10.1007/s00382-017-3716-8, 1705-1717
56. Goswami B.B., Khouider B., Phani R., Mukhopadhyay P., Majda A., 2017, Implementation and calibration of a stochastic multicloud convective parameterization in the NCEP Climate Forecast System (CFSv2), **Journal of Advances in Modeling Earth Systems,** 9, DOI:10.1002/2017MS001014,
57. Goswami B.B., Khouider B., Phani R., Mukhopadhyay P., Majda A., 2017, Improving synoptic and intraseasonal variability in CFSv2 via stochastic representation of organized convection, **Geophysical Research Letters,** 44, DOI:10.1002/2016GL071542,1-10
58. Goswami B.B., Khouider B., Phani R., Mukhopadhyay P., Majda A.J., 2017, Improved tropical modes of variability in the NCEP Climate Forecast System (version 2) via a Stochastic Multicloud Model, **Journal of Atmospheric Sciences,** 74, DOI:10.1175/JAS-D-17-0113.1,3339-3366
59. Goswami T., Suryachandra A. Rao, Hazra A., Chaudhari H.S., Dhakate A., Salunke K., Mahapatra S., 2017, Assessment of simulation of radiation in NCEP Climate Forecasting System (CFS V2), **Atmospheric Research,** 193, DOI:10.1016/ j.atmosres.2017.04.013,94-106
60. Gotzfried P., Bipin Kumar, Shaw RA., Schumacher J., 2017, Droplet dynamics and fine-scale structure in a shearless turbulent mixing layer with phase changes, **Journal of Fluid Mechanics,** 814, DOI:10.1017 / jfm.2017.23, 452-483
61. Goyal S., Kumar A., Mohapatra M., RathoreL.S., DubeS.K., Saxena R., Giri R.K., 2017, Satellite-based technique for nowcasting of thunderstorms over Indian Region, **Journal of Earth System Science,** 126:79, DOI:10.1007 /s12040-017-0859-2, 1-13

62. Goyal S., Mohapatra M., Kumari P., Dube S.K., Kushagra R.,2017, Validation of Advanced Dvorak Technique (ADT) over north Indian Ocean, **Mausam,** 68(4), 689-698

63. Guha T., Lin C.T., Bhattacharya S.K., Mahajan A.S., Ou-Yang C-F, Lan Y-P, Hsu S.C., Liang M-C, 2017, Isotopic ratios of nitrate in aerosol samples from Mt. Lulin, a highaltitude station in Central Taiwan, **Atmospheric Environment,** 154,53-69

64. Hazra A., Chaudhar, H.S., Ranalkar M., Chen J.P., 2017, Role of interactions betweencloud microphysics, dynamics and aerosol in the heavy rainfall event of June 2013 over Uttarakhand, India, **Quarterly Journal of the Royal Meteorological** Society,143, DOI:10.1002/ qj.2983, 986-998.

65. Hazra A., Chaudhari H.S., Saha Subodh K.,Pokhrel S., 2017, Effect of cloud microphysics on Indian summer monsoon precipitating clouds: A coupled climate modeling study, **Journal of Geophysical Research,** 122, DOI:10.1002/2016JD026106,1-20

66. Hazra A., Chaudhari H.S., Saha Subodh K., Pokhrel S., Goswami B.N., 2017, Progress towards achieving the challenge of Indian Summer Monsoon climate simulation in a coupled ocean-atmosphere model, **Journal of Advances in Modeling Earth Systems,** 9, DOI:10.1002/ 2017MS000966, 1-23

67. Hossain K., Yadav Sarita, Quaik S., Pant Gaurav, Maruthi A.Y., Ismail N., 2017, Vulnerabilities of macrophytes distribution due to climate change, **Theoretical and Applied Climatology**, 129, DOI:10.1007/s00704-016-1837-3, 1123-1132

68. Jain S., Kar S.C., 2017, Transport of water vapour over the Tibetan plateau as inferred from the model simulations, **Journal of Atmospheric and Solar Terrestrial Physics,** 161, DOI:10.1016/j.jastp.2017.06.016, 64-75

69. Jaswal AK., Kore P.A., Singh V., 2017, Variability and trends in low cloud cover over India during 1961-2010, **Mausam,** 68(2), 235-252

70. Jaswal AK., Padmakumari B., Naresh Kumar, Kore P.A., 2017, Increasing trend in temperature and moisture induced heat index and its effect on human health in climate change scenario over the Indian sub-continent, **Journal of Climate Change,** 3, DOI:10.3233/JCC-170002,11-25

71. Jayakumar A., Rajagopal E.N., Boutle I.A.,George J.P., Mohandas S., Webster S., Aditi S., 2017, Operational fog prediction system for Delhi using the 330m unified model, **Atmospheric Science Letters,** DOI.10.1002/ asl.796.

72. Jayakumar A., Sethunadh J., Rakhi R., Arulalan T., Mohandas S., Iyengar C.R., Rajagopal E.N., 2017, Behaviour of predicted convective clouds and precipitation in the high-resolution Unified Model over the Indian summer monsoon region, **Earth and Space Science,** 4,5, DOI:10.1002/2016EA000242, 303-313

73. Jayakumar M., Rajavel M., 2017, Coffee yield forecasting using climate indices based agrometeorological model in Kerala,**Mausam,** 68,2, 309-316

74. Joseph S., Sahai AK., Phani R., Mandal R., Dey A., Chattopadhyay R., Evaluation of Extended Range Forecast Skill on Subdivisional Scale over India, IITM Research Report, RR137, May 2017

75. Joshi M.K and Kucharski F., 2017, Impact of interdecadal Pacific oscillation on Indian summer monsoon rainfall: an assessment from CMIP5 climate models, **Climate Dynamics,** 48, DOI:10.1007/s00382-016- 3210-8, 2375-2391

76. Kakade S., Kulkarni Ashwini, 2017, Association between Arctic Circulation and Indian Summer Monsoon Rainfall, **Journal of Climatology** & **Weather Forecasting,** 5, DOI:10.4172/2332-2594.1000208,1-5

77. Kakade S.B., Kulkarni Ashwini, 2017, Seasonal prediction of summer monsoon rainfall over cluster regions of India, **Journal of Earth System Science,** 126, DOI:10.1007/s12040-017-0811-5,1-15

78. Karmakar N., Chakraborty A., Nanjundiah RS., 2017, Increased sporadic extremes decrease the intraseasonal variability in the Indian summer monsoon rainfall, **Scientific Reports,** 7:7824, DOI:10.1038/ s41598-017-07529-6,1-7

79. Karuna Sagar S., Rajeevan M., Rao Vijaya Bhaskara S., 2017, On increasing monsoon rainstorms over India, **Natural Hazards,** 85(3), DOI:10.1007 /s11069-016-2662-9, 1743-1757.

80. Karuna Sagar S., Rajeevan M.., Rao S.V.B.,Mitra A.K., 2017, Prediction skill of rainstorm

events over India in the TIGGE weather prediction models, **Atmospheric Research,** 198, DOI:10.1016/j.atmosres. 2017. 08.017,194-204

81. Kasimahanthi A.J., Dutta D., Devarajan P.K., George J.P., Rajagopal E.N., 2017, Quality characterization of reflectivity and radial velocity observed by Indian Doppler weather radars, **Journal of applied remote sensing,** 11(3), 036026, DOI:10.1117 / 1.TRS.11.036026
82. Kaur S., Diwakar S.K., Das A.K., 2017, Long term rainfall trend over meteorological sub divisions and districts of India, **Mausam,** 68,3,439-450
83. Kaur S., Gupta P.K., 2017, Devastating rainstorm of June-2013 in Uttarakhand, India, **Mausam,** 68(4), 633-642
84. Konwar M., Laven P., Prabha T.V., 2017, Simultaneous observation of a glory and in-situ microphysical cloud properties, **Applied Optics,** 56, DOI:10.1364/ AO.56.0000GS, *GS-GB*
85. Kothawale D.R., Deshpande N.R., Narkhedkar S.G., Kulkarni J.R., 2017, Unidentified heavy rainfall station 'Tamhini' in the northern region of Western Ghats of India, **International Journal of Climatology,** 37, DOI:10.1002/joc.4786,1416-1431
86. Kothawale D.R., Rajeevan M., Monthly, Seasonal and Annual Rainfall Time Series for All-India, Homogeneous Regions and Meteorological Subdivisions: 1871-2016, IITM Research Report, RR138, August 2017
87. Kothawale D.R., Singh H.N., 2017, Recent trends in tropospheric temperature over India during the period 1971-2015, **Earth and Space Science,** 4, DOI:10.1002/ 2016EA000246,1-7
88. Kucharski Fred, **Joshi Manish K.,** 2017, Influence of tropical South Atlantic sea-surface temperatures on the Indian summer monsoon in CMIP5 models, **Quarterly Journal of Royal Meteorological Society**, 143A, DOI:10.1002/qj.3009, 1351-1363
89. Kulkarni Ashwini, 2017, Homogeneous clusters over India using probability density function of daily rainfall , **Theoretical and Applied Climatology,** 129, DOI:10.1007/ s00704-016-1808-8,633-643
90. Kumar A., Chattopadhayay N., Ramarao Y.V., Singh K.K., Durai V.R., Das A.K., Rathi M., Mishra P, Malathi K., Soni A., Sridevi, 2017, Block level weather forecast using direct model output from NWP models during monsoon season in India, **Mausam,** 68(1),23-40
91. Kumar Bipin, Bera S., Prabha T.V., Grabowski W., 2017, Ooud-edge mixing: Direct numerical simulation and observations in Indian Monsoon clouds, **Journal of Advances in Modeling Earth Systems,** 9, DOI:10.1002/2016MS000731,1- 22
92. Kumar K.N., Molini A., Ouarda T.B.M.J., Rajeevan M.N., 2017, North Atlantic controls on wintertime warm extremes and aridification trends in the Middle East, **Scientific Reports,** 7:12301, DOI:10.1038/ s41598-017-12430-3
93. Kumar N., Jaswal AK., Mahapatra M., Kore P.A., 2017, Spatial and temporal variation in daily temperature indices in summer and winter seasons over India (1969-2012), **Theoretical and Applied** Climatology,129(3-4),DOI 10.1007/ s00704- 016-1844-4,1227-1239
94. Kumar N., Mahapatra M., Jaswal A.K., 2017, Meteorological features associated with unprecedented precipitation over India during 1st week of March 2015, **Journal of Earth System Science,** 126:62, DOI: 10.1007/s12040-017-0842-y,
95. Latha R., Murthy B.S., Lipi K., Srivastava Manoj K., Kumar Manoj, 2017, Absorbing aerosols, possible implication to crop yield - a comparison between IGB stations, **Aerosol and Air Quality Research,** 17, DOI:10.4209/ aaqr.2016.02.0554, 693-705
96. Leena P.P., Anil Kumar V., Dani K.K., Sombawne S.M., Murugavel P., Pandithurai G., 2017, Evidence of new particle formation during post monsoon season over a high altitude site of the Western Ghats, India, **Toxicological** & **Environmental Chemistry,** 99, DOI:10.1080/02772248. 2016.1274031, 652-664

97. Leena P.P., Vijayakumar K., Anilkumar V., Pandithurai G., 2017, Analysing temporal variability of particulate matter and possible contributing factors over Mahabaleshwar, a high-altitude station in Western Ghats, India, **Journal of Atmospheric and Solar Terrestrial Physics,** 164, DOI:10.1016/j.jastp. 2017.08.013,105-115.

98. Mahapatra P.S., Sinha P.R., Boopathy R., Das T., Mohanty S., Sahu S.C., Gurjar B.R., 2017, Seasonal progression of atmospheric particulate matter over an urban coastal region in peninsular India: Role of local meteorology and long-range transport, **Atmospheric Research,** 199, DOI: 10.1016/j.atmosres.2017.09.001,145-159,

99. Mallick S., Dutta D., Min Ki-Hong, 2017, Quality assessment and forecast sensitivity of global remote sensing observations, **Advances in Atmospheric Sciences,** 34(3), DOI:10.1007/ s00376-016-6109-8371-382

100. Managave S.R., Shimla P., Borgaonkar H.P., Bhattacharyya A., Ramesh R., 2017, Regional differences in the carbon isotopic compositions of teak from two monsoonal regimes of India, **Dendrochronologia**, 44, DOI:10.1016/j.dendro.2017.06.003, 203-210

101. Maurya R.K.S., Sing, G.P., Choudhar U.K., Bhan S.C., 2017, Regional climate simulation of present day temperature over India using RegCM3: Evaluation and analysis of model performance, **Mausam,** 689()4, 607-620

102. Mikhailovskii Yu.P., Sin'kevich A.A., Pawar S.D., Gopalkrishanan V., Dovgalyuk Yu. A., Veremei N.E., Bogdanov E.V., Kurov A.B., Adzhiev A.Kh., Malkarova A.M., Abshaev A.M., 2017, Investigations of the development of thunderstorm with hail. Part 2. Analysis of methods for the forecast and diagnosis of the electrical properties of clouds, **Russian Meteorology and Hydrology**, 42, , DOI:10.3103/S1068373917060036, 377-387

103. Mohan T.S., Rajeevan M., 2017, Past and future trends of hydroclimatic intensity over the Indian monsoon region, **Journal of Geophysical Research: Atmospheres,** 122(2), DOI: 10.1002/2016JD025301, 896-909

104. Morwal S.B., Narkhedkar S.G., Padmakumari B., Maheskumar R.S., Deshpande C.G., Kulkarni J.R., 2017, Intra-seasonal and Inter-annual variability of Bowen Ratio over rain-shadow region of North peninsular India, **Theoretical and Applied Climatology,** 128, DOI:10.1007/ s00704-016-1745-6, 835-844

105. Mujumdar M., Sooraj K.P., Krishnan R., Preethi B., Joshi **M.K.,** Varikoden **H.,** Singh Bhupendra B., Rajeevan M., 2017, Anomalous convective activity over sub tropical east Pacific during 2015 and associated boreal summer monsoon teleconnections, **Climate Dynamics,** 48, DOI:10.1007/ s00382-016-3321-2,4081-4091

106. Mukherjee Pami, Sinha Nitesh, Chakraborty Supriyo, 2017, Investigating the dynamical behavior of the Intertropical Convergence Zone since the last glacial maximum based on terrestrial and marine sedimentary records, **Quaternary International,** 443, DOI:10.1016/ j.quaint.2016.08.030, 49-57

107. Murali Krishna U.V., Das Subrata Kumar, Deshpande S.M., Doiphode S.L., Pandithurai G., 2017, Assessment of global precipitation measurement estimates over the Indian subcontinent, **Earth and Space Science**, 4, DOI:10.1002/2017EA000285, 540-553

108. Murthy B.S., Latha R., 2017, Intraseasonal variability of rainfall, wind and temperature during summer monsoon at an Indian tropical west coast station, Goa- Role of synoptic systems, **Journal of Indian Geophysical Union,** 21, 298-308

109. Murugavel P., Malap N., Balaji B., Mehajan R. K., Prabha T. V., 2017, Precipitable water as a predictor of LCL height, **Theoretical and Applied Climatology,** 130, DOI:10.1007/s00704-016-1872-0,467-476

110. Nandargi S.S., Aman K., 2017, Computation of the Standardized Precipitation Index (SPI) for assessing droughts over India, **International Journal of Current Advanced Research**, 6, DOI:10.24327/ijcar.2017.8557.1383, 8545-8557

111. Nandargi S.S., Barman K., 2018, Evaluation of Climate Change Impact on Rainfall Variation in West Bengal, **Acta Scientific Agriculture**, 2, 1-9

112. Nandargi S.S., Kamble A.S., 2017, Temporal and spatial analysis of rainfall and associated Normalized Difference Vegetation Index (NDVI) over the Pune district, India, **Focus on Science**, 3, DOI:10.21859/focsci-03041452, 9-16

113. Nandargi S.S., Mahto S.S., Ram S., 2017, Changes in Seasonality Index over sub-divisions of India during 1951-2015, **Open Atmospheric Science Journal**, 11, DOI: 10.2174/1874282301711010105, 105-120

114. Osuri K.K., Nadimpalli R., Mohanty U.C., Chen F., Rajeevan M., Niyogi D., 2017, Improved prediction of severe thunderstorms over the Indian Monsoon region using high-resolution soil moisture and temperature initialization, **Scientific Reports,** 7:41377, DOI: 10.1038/ srep41377, 1-12.

115. Padmakumari B., Maheskumar R.S., Anand V., Axisa D., 2017, Microphysical characteristics of convective clouds over ocean and land from aircraft observations, **Atmospheric Research,195,** DOI:10.1016/j.atmosres.2017.05.011,62-71

116. Pai D.S., Rao Suryachandra A., Semoy S., Pradhan M., Pillai P.A., Rajeevan M., 2017, Performance of the operational and experimental long-range forecasts for the 2015 southwest monsoon rainfall, **CurrentScience,** .112 (1), DOI: 10.18520/cs/v112/ i0l/68-75, 68-75.

117. Panda S., Sahoo S., Pandithurai G., 2017, Time series analysis of ground-based microwave measurements at K- and V- bands to detect temporal changes in water vapor and temperature profiles, **Geoscientific Instrumentation Methods and Data Systems,** 6, DOI:10.5194/ gi-6-15-2017,15-26

118. Pandey A., Patel Sameer, Pervez Shamsh, Tiwari S., 2017, Yadama Gautam, Chow Judith C., Watson John G., Biswas Pratim, Chakrabarty Rajan K., Aerosol emission factors from traditional biomass cookstoves in India Insights from field measurements, **Atmospheric Chemistry and Physics**, 17, DOI:10.5194/acp-2017-291, 13721-13729

119. Parekh A., Raju A., Chowdary J.S., Gnanaseelan C., 2017, Impact of satellite data assimilation on the predictability of monsoon intraseasonal oscillations in a regional model, **Remote Sensing Letters,** 8, DOI:10.1080/2150704X.2017.1312614, 686- 695

120. Pattanaik D.R., 2017, Hybrid (dynamical- empirical) forecast of Indian monsoon rainfall during 2016, **Current Science,** 112(12), 2367-2369

121. Pattanaik D.R., Mohapatra M., 2017, Active Northeast Monsoon over India during 2015 - An Assessment of Real-Time Extended Range Forecast, **Current Science,** 112(11), 2253-2262

122. Pattanayak S., Nanjundiah Ravi S., Nagesh Kumar D., 2017, Linkage between global sea surface temperature and hydroclimatology of a major river basin of India before and after 1980, **Environmental Research Letters,** 12, DOI:0.1088/1748-9326/ aa9664,1-11

123. Pattnayak K.C., Kar S.C., Dalal M., Pattnayak R.K., 2017, Projections of annual rainfall and surface temperature from CMIP5 models over the BIMSTEC countries, **Global and Planetary Change,** 152, DOI: 10.1016/j.gloplacha.2017.03.005, 152-166

124. Pawar S.D., Gopalakrishnan V., Murugavel P., Veremey N.E., Sinkevich A.A., 2017, Possible role of aerosols in the charge structure of isolated thunderstorms, **Atmospheric Research,** 183, DOI:10.1016/ j.atmosres.2016.09.016,331-340

125. Pawar V., Domkawale M., Pawar S.D., Salvekar P.S., Pradeep Kumar P., 2017, Inter annual variability of Tropospheric NO2 and Tropospheric Ozone over Maharashtra (India): the role of lightning, **Remote Sensing Letters**, 8, DOI:10.1080/2150704X.2017.1346398, 1015-1024

126. Peshin S.K., Sinha P., Bisht A., 2017, Impact of Diwali firework emissions on air quality of New Delhi, India during 2013-2015, **MAUSAM,68(1),** 111-118

127. Pillai P.A., Rao S.A., George G., Rao D.N., Mahapatra S., Rajeevan M., Dhakate A., Salunke K., 2017, How distinct are the two flavors of El Nifio in retrospective forecasts of

Oimate Forecast System version 2 (CFSv2)?, **Climate Dynamics,** 48, DOI:10.1007/ s00382-016-3305-2,3829-3854

128. Prabhu A., Kripalani R.H., Oh J., Preethi B., 2017, Can the Southern Annular Mode Influence the Korean Summer Monsoon Rainfall?, **Asia-Pacific Journal of Atmospheric Sciences,** 53, DOI:10.1007/ s13143-017-0029-0,217-228
129. Prabhu Arnita, Oh J., Kim I-w, Kripalani R.H., Mitra A.K., Pandithurai G., 2017, Summer monsoon rainfall variability over North East regions of India and its association with Eurasian snow, Atlantic Sea Surface temperature and Arctic Oscillation, **Climate Dynamics,** 49, DOI:10.1007/ s00382-016-3445-4,2545-2556
130. Pradhan M., Suryachandra A. Rao, Srivastava Ankur, Dakate A., Salunke K., Shameera KS., 2017, Prediction of Indian Summer-Monsoon Onset Variability: A Season in Advance, **Scientific Reports,** 7:14229, DOI:10.1038/s41598-017-12594-y,1-14
131. Pradhan M., Yadav R.K., Ramu Dandi A., Srivastava A., Phani M.K., Rao S.A., 2017, Shift in MONSOON-SST teleconnections in the tropical Indian Ocean and ENSEMBLES climate models fidelity in its simulation, **International Journal of Climatology,** 37, DOI:10.1002/ joc.4841, 2280-2294
132. Prakash R. and Srivastava H.N., 2017, Diurnal variations of outgoing long wave radiation (OLR) vis a vis 4 January, 2016 Manipur earthquake (Mw: 6.7) An earthquake precursor?, **Mausam,** 68(3), 475-
    486
133. Preethi **B.,** Mujumdar M., Kripalani **R.H.,** Prabhu A., Krishnan R., 2017, Recent trends and tele connections among South and East Asian summer monsoons in a warming environment, **Climate Dynamics,** 48, DOI:10.1007/ s00382-016-3218-0,2489-2505
134. Preethi B., Mujumdar M., Prabhu A., Kripalani R.H., 2017, Variability and Teleconnections of South and East Asian Summer Monsoons in Present and Future Projections of CMIP5 Climate Models, **Asia-Pacific Journal of Atmospheric Sciences,** 53, DOI:10.1007/ s13143-017-0034-3,305-325
135. Priya P., Krishnan R., Mujumdar M., Houze Jr. R. A., 2017, Changing monsoon and midlatitude circulation interactions over the Western Himalayas and possible links to occurrences of extreme precipitation,**Climate Dynamics,** 49, DOI:10.1007/ s00382-016-3458-z,2351-2364
136. Ramu D.A., Suryachadra A. Rao, Pillai P., Pradhan M., George G., Nagarguna Rao D., Mahapatra S., Pai D.S., Rajeevan M., 2017, Prediction of seasonal summer monsoon rainfall over homogenous regions of India using dynamical prediction system, **Journal of Hydrology,** 546, DOI:10.1016/ j.jhydrol.2017.01.010,103-112
137. Rana RS., Singh M., Pathania R., Upadhyay S.K., Kalia V., 2017, Impact of changes in climatic conditions on temperate fruit production of Himachal Pradesh, **Mausam,** 68(4), 655-662
138. Ranalkar M.R., Pawar S.D., Pradeep Kumar P., 2017, Characteristics of lightning activity in tropical cyclones developed over North Indian Ocean basin during 2010-2015, **Atmospheric Research,** 187, DOI:10.1016/ j.atmosres.2016.12.003,16-32
139. Rao R.R., Horii T., Masumoto Y., Mizuno K., 2017, Observed variability in the upper layers at the Equator, 90°E in the Indian Ocean during 2001-2008, 2: meridional currents, **Climate Dynamics,** 49, DOI:10.1007/s00382-016-2979-9,,1031-1048
140. Rao R.R., Horii T., Masumoto Y., Mizuno K.,2017, Observed variability in the upper layers at the Equator, 90°E in the Indian Ocean during 2001-2008, 1:zonal currents, **Climate Dynamics,** 49, DOI:10.1007 / s00382-016-3234-0,1077-1105
141. Rao R.R., Ramakrishna S.S.V.S., 2017, Observed seasonal and interannual variability of the near-surface thermal structure of the Arabian Sea Warm Pool, **Dynamics of Atmospheres and Oceans**, 78, DOI:10.1016/j.dynatmoce.2017.03.001, 121-136

142. Ratna K.N., Mohant M., 2017, Some characteristics of southwest monsoon rainfall over urban centres in Andhra Pradesh and Telangana, **Mausam,** 68(1), 51- 66

143. Ratnam J.V., Behera S.K., Krishnan R., Doi T., Ratna S.B., 2017, Sensitivity of Indian summer monsoon simulation to physical parameterization schemes in the WRF model, **Climate Research**, 74, DOI:10.3354/cr01484, 43-66

144. Ray K., Kannan B. A. M., Sharma,P., Sen,B. and Warsi, A. H., 2017, Severe Thunderstorm Activities over India during SAARC STORM Project 2014-15: Study Based on Radar, Vayumandal, 43,2,33-49.

145. Routray A., Singh V., Singh H., Dutta D., George J.P., Rakhi R., 2017, Evaluation of different versions of NCUM global model for simulation of track and intensity of tropical cyclones over Bay of Bengal, **Dynamics of Atmospheres and Oceans,** 78, DOI:10.1016 / j.dynatmoce.2017.04.001,71- 88

146. Roxy M. K., Ghosh S., Pathak A., Athulya R., Mujumdar M., Murtugudde R., Terray P., Rajeevan M., 2017, Threefold rise in widespread extreme rain events over central India, **Nature Communications,** 8:708, DOI:10.1038/ s41467-017-00744-9,1- 11

147. Roxy M.K., 2017, Land warming revives monsoon, **Nature Climate Change,** 7, 549- 550

148. Roy C., Fadnavis S., Muller R., Ayantika D.C., Ploeger F., Rap A., 2017, Influence of enhanced Asian NOx emissions on ozone inthe upper troposphere and lower stratosphere in chemistry-climate model simulations, **Atmospheric Chemistry and Physics,** 17, DOI:10.5194/ acp-17-1297- 2017,1297-1311

149. Roy S., Pal S., Chakravarty N., 2017, Estimation of solar radiation using two stepmethod in West Bengal, **Mausam,** 68(3), 529-536

150. Saha Moumita, Mitra P., Nanjundiah Ravi S., 2017, Deep learning for predicting the monsoon over the homogeneous regions of India, **Journal of Earth System Science**, 126:54, DOI:10.1007/s12040-017-0838-7, 1-18

151. Saha Subodh K., Sujith K., Pokhrel S., Chaudhari H.S., Hazra A., 2017, Effects of multilayer snow scheme on the simulation of snow: Offline Noah and coupled with NCEP CFSv2, **Journal of Advances in Modeling Earth Systems,** 9, DOI:10.1002/ 2016MS000845,l-20

152. Saha U.,Siingh D., Kamra A.K., Galanaki E., Maitra A., Singh R.P., Singh A.K., Chakraborty Swastika, Singh Rajesh, 2017, On the association of lightning activity and projected change in climate over the Indian sub-continent, **Atmospheric Research,** 183, DOI:10.1016 / j.a tmosres.2016.09.001, 173-190

153. Saha U., Siingh D., Midya S.K., Singh RP.,Singh **A.K.,** Kumar S., 2017, Spatio- temporal variability of lightning and convective activity over South/ South-East Asia with an emphasis during El Nino and La Nifia, **Atmospheric Research,** 197, DOI:10.1016/j.atmosres.2017.07.005,150- 166

154. Sahai A.K., Sharmila S., Chattopadhyay R., Abhilash S., Joseph S., Borah N., Goswami B.N., Pai D.S., Srivastava A.K., 2017, Potential predictability of wet/dry spells transitions during extreme monsoon years: optimism for dynamical extended range prediction, **Natural Hazards,** 88, DOI 10.1007/ s11069-017-2895-2,853-865

155. Sahai S., Borah N., Chattopadhyay R., Joseph S., Abhilash S., 2017, Bias correction and downscaling technique for operational extended range forecasts based on self organizing map, **Climate Dynamics,** 48, DOI:10.1007/ s00382-016-3214-4, 2437-2451

156. Sahu S. K., Ohara T., Beig G., 2017, Role of coal technology in redefining Indias climate change agents and other pollutants, **Environmental Research Letters**, 12:105006, DOI:10.1088/1748-9326/aa814a, 1-9

157. Sandeep A., Prasad V.S., Johny C.J., 2017, Quality and impact of doppler weather radar wind profiles: A diagnostic study, **Pure and Applied Geophysics,** 174(7), DOI 10.1007/ sooo24-017-1544-8, 2847-2862

158. Sangode S.J., Rawat S., Kulkarni Y., Chate D.M., Gudadhe S.S., January 2017, Sedimentary and geomorphic signatures of a cloud burst and triggered flash floods in the Indus valley of Ladakh Himalaya, **Himalayan Geology**, 38, 12-29

159. Sanjay J., Krishnan R., Shrestha A.B., Rajbhandari R., Ren G-Y, 2017, Downscaled climate change projections for the Hindu Kush Himalayan region using CORDEX South Asia regional climate models, **Advances** in **Climate Change Research,** 8, DOI:10.1016/j.accre.2017.08.003,185-198

160. Sarkar J., Chicholikar J.R., 2017, Futureclimate change scenario in hot semi-arid climate of Saurashtra, Gujarat by using statistical downscaling by LARS-WG model, **Mausam,** 68(4), 589-596

161. Sarkar S., Mukhopadhyay P., Dutta S., 2017, Atmospheric dynamics and internal processes during organization and intensification of Boreal Summer Intraseasonal Oscillation (BSISO) based onTRNIM and reanalyses data, **InternationalJournal of Climatology,** 37, DOI:10.1002/ joc.5017, 497-512

162. Sathyanadh A., Prabha T.V., Balaji B., Resmi E.A., Karipot A., 2017, Evaluation of WRF PBL parameterization schemes against direct observations during a dry event over the Ganges valley, **Atmospheric Research,** 193, DOI:10.1016/j.atmosres.2017.02.016, 125-141

163. Sathyanadh A., Prabha T.V., Patil C., Karipot A., 2017, Planetary boundary layer height over the Indian subcontinent: Variability and controls with respect to monsoon, **Atmospheric Research,** 195, DOI:10.1016/j.atmosres.2017.05.010,44-61

164. Sawaisarje K.G., Dutta S., Jagtap S., 2017, Role of Hamiltonian energy in thunderstorms, **Mausam,** 68(3), 519-528

165. Shah Reepal, Sahai A.K., Mishra Vimal, 2017, Short-to-medium range hydrologic forecast to manage water and agricultural resources in India, **Hydrology and Earth System Sciences,** 21, DOI:10-5194/hess-2016-504, 707-720

166. Sharma A., Ojha N., Pozzer A., Mar K.A., Beig G., Lelieveld J., Gunthe S., 2017, WRF-Chem simulated surface ozone over south Asia during the pre-monsoon: effects of emission inventories and chemical mechanisms, **Atmospheric Chemistry and Physics**, 17, DOI:10.5194/acp-17-14393-2017, 14393-14413

167. Sharma D., Srivastava A.K., Ram K., Singh A., Singh D., 2017, Temporal variability in aerosol characteristics and its radiative properties over Patiala, northwestern part of India: Impact of agricultural biomass burning emissions*, **Environmental Pollution,** 231, DOI:10.1016/ j.envpol.2017.08.052,1030-1041

168. Sharma K., Ashrit R., Bhatia R., Mitra A.K., Iyengar G.R., Rajagopal E.N., 2017, Skill of predicting heavy rainfall over India: Improvement in recent years using UKMO global model, **Pure and Applied** Geophysics,174(11), DOI 10.1007/s00024- 017-1640-9,4241-4250

169. Sharma S., Kumar P., Vaishnav R., Jethva C., Beig G., 2017, Study of the middle atmospheric thermal structure over western India: Satellite data and comparisons with models, **Advances in Space Research**, 60, DOI:10.1016/j.asr.2017.09.021, 2402-2413

170. Sharma S., Singh M., Bhan S.C., 2017, Study on pre-harvest forecast of maize yield using statistical model for Himachal Pradesh, **Mausam,** 68(2), 369-374

171. Shekhar M.S., Devi U., Paul S., Singh G.P., Singh A., 2017, Analysis of trends in extreme precipitation events over western Himalaya Region: intensity and duration wise study, *Journal of Indian Geophysical Union*,21(3), 225-231

172. Shekhar M.S., Rao N.N., Paul S., Bhan S.C., Singh G.P., Singh A., 2017, Winter precipitation climatology over western Himalaya: Altitude and Range wise study, ***Journal of Indian Geophysical Union*** , 21(2),148-152

173. Shi Feng, Fang Keyan, Xu Chenxi, Zhengtang Guo, Borgaonkar H. P., 2017, Interannual to centennial variability of the South Asian summer monsoon over the past millennium, **Climate Dynamics**, 49, DOI:10.1007/s00382-016-3493-9, 2803-2814

174. Shirai T., Ishizawa M., Zhuravlev R., Ganshin A., Belikov D., Saito M., Oda T., Valsala V., Gomez-Pelaez A.J., Langenfelds R., Maksyutov S., 2017, Decadal inversion ofCO_2 using the Global Eulerian-Lagrangian Coupled Atmospheric model (GELCA): sensitivity to the ground-based observation network, **Tellus - B,** 69, DOI:10.1080/ 16000889.2017.1291158,1-24

175. Shrestha AB., Bajaracharya S., Sharma A, Duo C., Kulkarni Ashwini, 2017, Observed trends and changes in daily temperature and precipitation extremes over the Koshi river basin 1975-2010, **International Journal of Climatology,** 37, DOI:10.1002/ joc.4761,1066-1083

176. Shrivastava S., Bal P.K., Ashrit R., Sharma K., Lodh A Mitra AK., 2017, Performance of NCUM Global Weather Modeling System in Predicting the Extreme Rainfall Events over the Central India During the Indian Summer Monsoon 2016, **Modeling Earth Systems and Environment,** Online**,**DOI:10.1007/s40808-017-0387-8,1-11

177. Shrivastava S., Kar S.C., Sharma AR., 2017, Intraseasonal variability of summer monsoon rainfall and droughts over central India, **Pure and Applied Geophysics,** 174,4,1827-1844

178. Shrivastava S., Singh K.K., Baxla AK., Kar S.C., Sharma AR., Manish Bhan, 2017, Performance of CERES-Rice model for estimating yield during drought years in Madhya Pradesh, **Environment and Ecology,** 35(4B), 3135

179. Sid d hart h Kumar, Arora A . , Chattopadhyay R., Hazra A, Suryachandra A Rao, Goswami B.N., 2017, Seminal role of stratiform clouds in large scale aggregation of tropical rain in boreal summer monsoon intraseasonal oscillations, **Climate Dynamics,** 48, DOI:10.1007/ s00382-016- 3124-5, 999-1015

180. Siingh D., Dharmaraj T., Ramesh Kumar P., Singh R., Kumar S., Chinthalu G.R., Patil M.N., Singh R.P., 2017, Variability of lightning, convective rain and solar activity study over South/Southeast Asia during ENSO episode for the period of 1998-2010, **Journal of Indian Geophysical Union,** 21,401-414

181. Siingh D., Sanjay Kumar, Saha U., Singh A K., Singh R.P., Singh Ashok K., 2017, Lighting/ Optical Discharges and Climate: A Brief Review, **Earth Science India,** 10,13-62

182. Singh Charu, Dasgupta Panini, 2017, Unraveling the spatio-temporal structure of the atmospheric and oceanic intra-seasonal oscillations during the contrasting monsoon seasons, **Atmospheric Research**, 192, DOI:10.1016/j.atmosres.2017.03.020, 48-57

183. Singh H., Arora K., Ashrit R., Rajagopal E.N., 2017, Verification of pre-monsoon temperature forecasts over India during 2016 with a focus on heatwave prediction, **Natural Hazards Earth System Science,** 17(9), DOI:10.5194/nhess-17-1469-2017, 1469-1485

184. Singh P., Gnanaseeelan C., Chowdary J.S., 2017, North-East monsoon rainfall extremes over the southern peninsular India and their association with El Ni-no, **Dynamics of Atmospheres and Oceans,** 80, DOI:10.1016/j.dynatmoce.2017.08.002,1-11

185. Singh P.K., Rathore L.S., Rao D., Bhaskar V., Singh K. K., Baxla AK., Bhan S.C., Gupta A, Singh S., 2017, Spatial analysis of rainfall variability and rainfed rice crop using GIS Technique in West Bengal **(India),Mausam,** 68(2), 287-298

186. Singh P.K., Singh K.K., Bhan S.C., Baxla AK., Singh S., Rathore L.S., Gupta A, 2017, Impact of projected climate change on rice (Oryza sativa L.) yield using CERES-rice model in different agroclimatic zones of India, **Current Science,** 112(1),108-115

187. Singh R., Maurya AK., Chanrion 0., Neubert T., Cummer S.A, Mlynarczyk J., Cohen M.B., Siingh D., Kumar Sushil, 2017, Assessment of unusual Gigantic jets observed during the Monsoon season: First observations from Indian Subcontinent, **Scientific Reports,** 7:16436, DOI:10.1038/ s41598-017-16696-5,1-8

188. Singh S., Prasad V.S., 2017, Impact of Megha-Tropiques SAPHIR radiances in T574L64 global data assimilation and forecasting system at NCMRWF, **International Journal of Remote Sensing,** 38(16), DOI:10.1080/01431161.2017. 1323279,4587-4610

189. Singh S., Tiwari S., Dumka U.C., Singh P.K., 2017, Source region and sector contributions of atmospheric soot particle in a coalfield region of Dhanbad, eastern part of India, **Atmospheric Research**, 197, 415-424

190. Singla V., Mukherjee S., Safai P.D., Meena G.S., Dani K.K., Pandithurai G., 2017, Role of organic aerosols in CCN activation and closure over a rural background site in Western Ghats, India, **Atmospheric Environment,** 158, DOI:10.1016/ j.atmosenv.2017.03.037,148-159

191. Sin'kevich A.A., Dovgalyuk Yu. A., Veremei N.E., Kurov A.B., Mikhailovskii Yu. P., Bogdanov E.V., Toropova M.L., Ignat'ev A.A., Adzhiev A.Kh., Malkarova A.M., Abshaev A.M., Gopalakrishnan V., Murugavel P., Pawar S.D., 2017, Investigations of the development of thunderstorm with hail. Part 3. Numerical simulation of cloud evolution, **Russian Meteorology and Hydrology**, 42, DOI:10.3103/S1068373917080027, 494-502

192. Somaru Ram, Borgaonkar H.P., 2017, Moisture index during the last two centuries inferred from tree growth in the western Himalaya, India, **Current Science,** 112, DOI:10.18520/ cs/v112/ i12/2453-2455, 2453-2455

193. Somaru Ram, Borgaonkar H.P., Nandargi S.S., 2017, Western Himalaya Trees Growth Study and its Association with Droughts in India: A Case Study, **Global Journal of Botanical Science,** 5,33-38

194. Soni V.K., Sateesh M., Das AK., Peshin S.K., 2017, Progress in Meteorological Studies around Indian Stations in Antarctica, **Proceedings of the Indian National Science Academy** , 83(2), DOI: 10.16943/ptinsa/2017/ 48954,461-467

195. Srivastava AK., Revadekar J.V., Rajeevan M., 2017, State of the Oimate in 2016: Asia, **Bulletin of the American Meteorological Society,** 98,S217-S220

196. Srivastava Ankur, Rao Suryachandra A, Rao Nagarjuna D., George G., Pradhan M., 2017, Structure, characteristics, and simulation of monsoon low-pressure systems in CFSv2 coupled model, **Journal of Geophysical Research,** 122, DOI:10.1002/2016JC012322, 6394-6415.

197. Srivastava P., Dey Sagnik, Srivastava AK., Singh S., Mishra S.K., Tiwari S., 2017, Importance of aerosol non-sphericity in estimating aerosol radiative forcing in Indo-Gangetic Basin, **Science of the Total Environment,** 599-600, DOI:10.1016/ j.scitotenv.2017.04.239, 655-662.

198. SSingh S.L., Nath S. Bhatnagar M.K., 2017, WMO information system at IMD Pune: A global meteorological information system, **Mausam,** 68(3), 551-556

199. Sujith K., Saha Subodh K., Pokhrel S., Hazra A, Chaudhari H.S., 2017, Dominant modes of recycled monsoon rainfall over India, **Journal of Hydrometeorology,** 18, DOI:10.1175/JHM-D-17-0082.1,2647-2657

200. Suneeth K.V., Das Siddarth S., Das Subrata Kumar, 2017, Diurnal variability of the global tropical tropopause: results inferred from COSMIC observations, **Climate Dynamics**, 49, DOI:10.1007/s00382-016-3512-x, 3277-3292

201. Swapna P., Jadhav Jyoti, Krishnan R., Sandeep N., Griffies S.M., 2017, Multidecadal weakening of Indian Summer Monsoon circulation induces an increasing Northern Indian Ocean sea level, **Geophysical Research Letters,** 44, DOI:10.1002/2017GL074706,1-13

202. Taneja K., Attri S.D., Ahmad S., Ahmad K., Soni V.K., Mor V., Dhankhar R., 2017, Comparative assessment of aerosol optical properties over a mega city and an adjacent urban area in India, **Mausam,** 68(4), 673-688

203. Tinmaker M.I.R., Aslam M.Y., Chate D.M., 2017, Association of rainfall and stability

index with lightning parameter over the Indo-Gangetic Plains, **American Journal of Climate Change,** 6, DOI:10.4236/ ajcc.2017.63023, 443-454

204. Tinmaker M.I.R., Aslam M.Y., Ghude S.D., Chate D.M., 2017, Lightning activity with rainfall during El Nino and La Nina events over India, **Theoretical and Applied Climatology,** 130, DOI:10.1007/ s00704-016- 1883-x, 391-400

205. Tirkey S. and Mukhopadhyay P., 2017, Evaluation of NCEP TIGGE short-range forecast for Indian summer monsoon intraseasonal oscillation, **Theoretical and Applied Climatology,** 129, DOI:10.1007/ s00704-016-1811-0, 745-782

206. Tiwari P.R., Kar S.C., Mohanty U.C., Dey S., Sinha P., and Shekhar M.S., 2017, Sensitivity of the Himalayan orography representation in simulation of winter precipitation using Regional Oimate Model (RegCM) nested in a GCM, **Climate** Dynamics,49(11-12), DOI:10.1007/s00382-017-3567-3,4157-4170

207. Tiwari S., Dumka U.C., Gautam AS., Kaskaoutis D.G., Srivastava AK., Bisht D.S., Chakrabarty R.K., Sumlin B.J., Solmon F., 2017, Assessment of PM2.5 and PM10 over Guwahati in Brahmaputra River Valley: Temporal evolution, source apportionment and meteorological dependence, **Atmospheric Pollution Research,** 8, DOI:10.1016/j.apr.2016.07.008,13-28

208. Tomar C.S., Saha D., Das S., Shaw S., Bist S., Gupta M. K., 2017, Analysis of temperature variability and trends over Tripura, **Mausam,68(1),** 149-160

209. Tyagi S. Tiwari Suresh, Mishra A., Singh S., Hopke P.K., Singh Surender, Attri S.D., 2017, Characteristics of absorbing aerosols during winter foggy period over the National Capital Region of Delhi: Impact of planetary boundary layer dynamics and solar radiation flux, **Atmospheric Research,** 188,DOI:10.1016/ j.atmosres.2017.01.00,1-10

210. Unnikrishnan C.K., Rajeevan M., Vijaya Bhaskar Rao, 2017, Study on the role of land-atmosphere coupling on the south Asian monsoon climate variability using a regional climate model, **Theoretical and Applied Climatology,** 127, DOI 10.1007/ s00704-015-1680-y,947-964

211. Utsav B., Deshpande S.M., Das Subrata K., Pandithurai G., 2017, Statistical characteristics of convective clouds over the Western Ghats derived from weather radar observations, **Journal of Geophysical Research,** 122, DOI:10.1002/2016JD026183,1-27

212. Verma S., Prakash D.,Srivastava AK., Payra S., 2017, Radiative forcing estimation of aerosols at an urban site near the Thar Desert using ground-based remote sensing measurements, **Aerosol and Air Quality Research,** 17, DOI: 10.4209/aaqr. 2016.09.0424, 1294-1304

213. Vizaya Bhaskar V. and Rao P.S.P., 2017, Annual and decadal variation in chemical composition of rain water at all the ten GAW stations in India, **Journal of Atmospheric Chemistry,** 74, DOI:10.1007/ s10874-016-9339-3, 23-53

214. Yadav R., Sahu L.K., Beig G., Tripathi N., Jaaffrey S.N.A., 2017, Ambient particulate matter and carbon monoxide at an urban site of India: Influence of anthropogenic emissions and dust storms, **Environmental Pollution,** 225, DOI:10.1016/ j.envpol.2017.01.038, 291-303

215. Yadav R.K. and Singh Bhupendra B., 2017, North Equatorial Indian Ocean Convection and Indian Summer Monsoon June Progression: a Case Study of 2013 and 2014, **Pure and Applied Geophysics,** 174, DOI:10.1007/s00024-016-1341-9,477-489

216. Yadav R.K., 2017, Midlatitude Rossby wave modulation of the Indian summer monsoon, **Quarterly Journal of Royal Meteorological Society,** 143 A, DOI:10.1002/ qj.3083, 2260-2271

217. Yadav R.K., 2017, On the relationship between east equatorial Atlantic SST and ISM through Eurasian wave, **Climate Dynamics,** 48, DOI 10.1007/ s00382-016- 3074-y, 281-295

218. Yadav B.P., Kumar N., Lotus S., 2017, Synoptic & climatological aspects of extreme rainfall over western Himalayas towards end of 2014 southwest monsoon season, **Mausam,** 68(4), 597-606.
219. Zhan Y-J, Ren G-Y, Shrestha A.B., Rajbhandari R., Ren Y-Y, Sanjay J., Yan XU, Sun X-B, YOU Q-L, WANG Shu, 2017, Changes in extreme precipitation events over the Hindu Kush Himalayan region during 1961-2012, **Advances in Climate Change Research,** 8, DOI:10.1016/ j.accre.2017.08.002,166-175

OSTORMS

220. Acharya R., 2017, Autonomously Deployed Deep Ocean Siesmic System(ADDOSS) - the emerging technology for Ocean Seismic Network, **Journal of Indian Geophysical Union,** 21,3, 240-241
221. Acharya R., 2017, Ocean Bottom Seismometer, **Journal of Indian Geophysical Union,** 21(1), 69-70
222. Acharya R., 2017, Shipboard Automated Meteorological and Oceanographic System (SAMOS) - A critical component of Global Ocean Observation Framework, **Journal of Indian Geophysical Union,** 21,6, 549-550
223. Akhand A., Chanda A., Dutta, S., Manna S.,Giri S., Das, S., Mukhopadhyay, A., Lotliker, A.A., Chakraborty, K., Sarkar, N.S., Sanyal, P., Hazra, S., Choudhury, S.B., Rao, K.H., 2017, Microphytoplankton species assemblages, species-specific carbon stock and nutrient stoichiometry in the shallow continental shelf of the northern Bay of Bengal during winter, **Indian Journal of Geo-Marine Sciences,** 46, 9, 1827-1835.
224. Anbuchezhiyan G., Mohan B., Sathianarayanan D., Thangaraj M., 2017, Synthesis and characterization of hollow glass microspheres reinforced magnesium alloy matrix syntactic foam, **Journal of Alloys and Compounds,** 719, DOI:10.1016/j.jallcom.2017.05.153,125-132.
225. Aneesh Kumar K.V., Deepa K.P., Hashim M., Vasu C., Sudhakar M., 2017, Relationships between fish size and otolith size of four bathydemersal fish species fromthe south eastern Arabian Sea, India., **Journal of Applied Ichthyology,** 33,1,DOI: 10.1111/jai.13250 ,102-107
226. Aneesh Kumar K.V., Nikki R., Oxona K., Hashim M., Sudhakar M., 2017, Relationships between fish and otolith size of nine deep sea fishes from the Andaman and Nicobar waters, North Indian Ocean. **Journal of Applied Ichthyology.** 33, 6, DOI:10.1111/jai.13467,1187-95.
227. Arora B.R., B.K. Bansal , S.K Prajapati, A.K. Sutar and S.Nayak, 2017, Seismotectonics and Seismogenesis of Mw7. 8 Gorkha Earthquake and its Aftershocks, Journal of Asian Earth Sciences, 133, DOI: 10.1016/j. jseaes.2016.07.018, 2-11
228. Baliarsingh S.K., Dwivedi RM., Lotliker A.A., Sahu K.C., Kumar T.S., Shenoi S.S.C., 2017, An optical remote sensing aroach for ecological monitoring of red and green Noctiluca scintillans, **Environmental Monitoring and Assessment,** 189(7), DOI:10.1007 /s10661-017-6037-9,330.
229. Baliarsingh S.K., Srichandan S., Lotliker A.A., Gracia-Escobar M.F., Tripathy M, Sahu K.C., Srinivasa Kumar T., 2017, Temporal variation of phytoplankton assemblage in estuarine waters: implicationof cyclone Phailin, **Current Science,** 135, 858-860.
230. Bharathi M.D,Sivaji Patra, Sundaramoorthy S., Madeswaran P., Sundaramanickam A.,

2017, Elucidation of seasonal variations of physicochemical and biological parameters with statistical analysis methods in Puducherry coastal waters, **Marine Pollution Bulletin,** 122, DOI 10.1016/ j.marpolbul.2017.05.048., 432-440,

231. Bhavya P. S., Kumar S, Gupta G. V., Sudharma K. V.,Sudheesh V., Dhanya K. R., 2017, Carbon isotopic composition of suspended particulate matter and dissolved inorganic carbon in the Cochin estuary during post-monsoon, **Current Science,** 110(8), DOI: 10.18520/cs/v110/i8/1539- 1543,1539-1543

232. Bhavya P. S., Kumar S, Gupta G. V., Sudheesh V., 2017, Carbon Uptake Rates in the Cochin Estuary and Adjoining Coastal Arabian Sea, **Estuaries and Coasts,** 40(2), DOil0.1007/s12237-016-0147-4, 447-456,

233. Chakraborty K., Kumar N., Gupta G.V., 2017, Getting the right wind-forcing for an ecosystem model: A case study from the eastern Arabian Sea, **Journal of Operational Oceanography,** 10, 2, DOI:10.1080/1755876x.2017.1354686. 76-90.

234. Chatterjee A., Shankar D., McCreary J.P., Vinayachandran P. N., Mukherjee A., 2017, Dynamics of Andaman Sea circulation and its role in connecting the equatoriallndian Ocean to the Bay of Bengal, **Journal of Geophysical Research. Oceans,** 122,4,DOI: 10.1002/ 2016JC012300, 3200-3218

235. Chavan P., Kumar R., Kirubagaran R., Venugopalan V.P., 2017, Comparative toxicological effects of two antifouling biocides on the marine diatom Chaetoceros lorenzianus: Damage and post-exposure recovery, **Ecotoxicology andEnvironmental Safety,** 144, DOI: 10.1016/j.ecoenv.2017.06.001, 97-106.

236. Das S., Giri S., Das I., Chanda A., Ghosh A., Mukhopadhyay A., Akhand A., Choudhury S.B., Dadhwal V.K., Maity S., Kumar T.S., Lotliker A.A., Mitra D., Hazra S., 2017, Nutrient dynamics of northern Bay of Bengal (nBoB)- Emphasizing the role of tides, **Regional Studies in Marine Science,** 10, DOI:10.1016/j.rsma.2017.01.006.116-134.

237. Das S., Hazra S., Giri S., Das I., Chanda A.,Akhand A., Maity S., 2017, Light absorption characteristics of chromophoric dissolved organic matter CDOM in the coastal waters of northern Bay of Bengal during winter season, **Indian Journal of Geo-Marine Sciences,** 46,5, 884-892.

238. Dudhgaonkar P, Jalihal P., 2017, Principles of Tidal Energy, Issue on Energy and Environment, Environmental Sciences, *ePathshala,* **National Council of Educational Research and Training, MHRD, Govt. of India.**

239. Dudhgaonkar P, Nagasamy D., Jalihal P., 2017, Energy Extraction from Ocean Currents using Straight Bladed Cross Flow Hydrokinetic Turbine, **The International Journal of Ocean and Climate Systems**, 8, 1**,**DOI:10.1177/1759313116673081.4-9

240. Durga Rao G., Kanuri V.V., KumaraswamiM., Ezhilarasan P., Rao V.D., Patra S., Dash S.K., Peter M., Ranga Rao V., Ramu K., 2017, Dissolved nutrient dynamics along the southwest coastal waters of India during northeast monsoon: a case study, **Chemistry and Ecology,** 33, 3, DOI:10.1080/02757540.2017.1287903, 229-246.

241. Dutta S., Chakraborty K., Hazra S., 2017, Ecosystem structure and trophic dynamics of an exploited ecosystem of Bay of Bengal, Sundarban Estuary, India, **Fisheries Science,** 83,2,DOI:10.1007 /s12562-016- 1060-2,145-159.

242. Jain V., Shankar D., Vinayachandran P.N., Kankonkar A., Chatterjee A., Amol P., Almeida A.M., Michael G.S., Mukherjee A., Chatterjee,M., Fernandes R., Luis R., Kamble A., Hegde A.K., Chatterjee S., Das U., Neema C.P., 2017, Evidence for the existence of Persian Gulf Water and Red Sea Water in the Bay of Bengal, **Climate Dynamics,** 48(9-10), DOI:10.1007 /s00382- 016-3259-4, 3207-3226.

243. Jebakumar J.P.P., Nandhagopal G., Bose R.B., Ragumaran S., Ravichandran V., Marchini A., Minchin D., 2017, Bryozoan *Amathia verticillata* (delleChiaje, 1822) fouling harbours of the southeast coast of India: re-evaluating its status, **BioInvasions Records,** 6,3, DOI:10.3391/bir.2017.6.3.05,211-216.

244. Jena B. K., Patra S. K., Joseph K.J., Sivakholundu K. M., 2017, Seasonal variation in nearshore wave characteristics off Cuddalore, Southeast coast of Tamil Nadu, India, **Current Science,** 112,10, DOI:10.18520 I cs/ vl 12/il0/2115-2121, 2115-2121.

245. Jha D.K, Rajaprabhu G, Kirubagaran R, Kumar RS, Dharani G., Das A., Gopinath G., Santhanakumar J., 2017, Estimation of potential zones for offshore mariculture in the Indian Sea using geographical information system as a management tool, **Journal of Coastal Conservation,** DOI:10.1007/s11852-017-0556-y,l-10.

246. Jithin A.K., Unnikrishnan A.S., Fernando V., Subeesh M.P., Fernandes R., Khalap S., Narayan S., Agarvadekar Y., Gaonkar M., Tari P., Kankonkar A., Vernekar S., 2017, Observed tidal currents on the continental shelf off the east coast of **India,Continental Shelf Research,** 141, DOI:10.1016/ j.csr.2013.09.008 ,51-67.

247. Joseph S., Ravichandran M., Kumar B. P., Jampana R.V., Han W., 2017 Ocean atmosphere thermal decoupling in the eastern equatorial Indian ocean, **Climate Dynamics,** 49(1-2), DOI:10.1007/s00382- 016-3359-l, 575-594.

248. Joshi K., D. Catherine, Uma Maheshwari, V.K. Gahalaut, P.N.S. Roy, P.K. Khan, N. Puviarasan, 2017, Ionospheric disturbances triggered by the 25 April 2015 M7.8 Gorkha earthquake, Nepal: Constraints from GPS TEC measurements, **Journal of Asian Earth Sciences**, 133, 80-88, DOI:10.1016/j.jseaes.2016.07.014 doi:10.1016/j.jseaes.2016.07.014

249. Kalyani M., Latha G., Sannasiraj S.A., Venkatesan R., 2017, Buoy data assimilation to improve wave height assessment in Bay of Bengal during monsoon seasons, **Indian Journal of Geo-Marine Sciences,** 1083- 1090.

250. Kanuri V.V., Gijjapu.D.R., Munnooru K., Sura A., Patra S., Vinjamuri R.R., Karri R., 2017, Scales and drivers of seasonal $pC0_2$ dynamics and net ecosystem exchange along the coastal waters of southeastern Arabian Sea, **Marine Pollution Bulletin,** 121,1-2, DOI:10.1016 /j .marpolbul. 2017.06.016, 372-380.

251. Lakshmi D.D., Murty P.L., Bhaskaran P.K., Sahoo B., Kumar T.S., Shenoi S.S.C., Srikanth, A.S., 2017, Performance of WRF- ARW winds on computed storm surge using hydodynamic model for Phailin and Hudhud cyclones, **Ocean Engineering,** 131, DOI:10.1016/j.oceaneng.2017.01.005, 135-148.

252. Leo D., 2017, Principle of Energy conversion using magnetic fields, Issue on Energy and Environment, Environmental Sciences, ePathshala, National Council of Educational Research and Training, MHRD, Govt. of India.

253. Mahanty **M.M.,** Latha G., Sanjana M.C., Thirunavukkarasu A., 2017, Passive Acoustic Observations in the Shallow Waters of Northwest Bay of Bengal to Study the Effects of Impact Pile Driving on Fish Chorus, **Marine Technology Society Journal,** 51,1, DOI:10.4031/mtsj.51.l.3, 23- 31.

254. Manasseh R, Sannasiraj S.A., Mcinnes KL, Sundar V., Jalihal P., 2017, Integration of wave energy and other marine renewable energy sources with the needs of coastal societies, **International Journal of Ocean and Climate Systems,** 8,1, DOI: 10.1177/1759313116683962,19-36

255. Marimuthu N., Kumar J.Y., Raghunathan C., Vinithkumar N.V., Kirubagaran R, Sivakumar K., Venkataraman K., 2017, North-south gradient of incidence, distribution and variations of coral reef communities in the Andaman and Nicobar Islands, India. **Journal of Coastal Conservation.** 1,21,2,289-301.

256. Mathew M.M., Srinivasa Rao N., Mandia V.R, 2017, Development of regression equation to study the Total Nitrogen, Total Phosphorus and Suspended Sediment using remote sensing data in Gujarat and Maharashtra coast of India, **Journal of Coastal Conservation,21,6,** DOI:10.1007 /s11852-017-0561-1,l-11.

257. Mohanty P.C., Mahendra RS., Nayak RK., Kumar Nimit, Kumar TSrinivasa., Dwivedi RM. 2017, Persistence of productive surface thermal fronts in the northeast Arabian Sea, **Regional Studies** in **Marine Science,** 16, DOI:10.1016/j.rsma.2017.09.010, 216-224.

258. Mohanty P.C., Mahendra RS., Nayak RK., Kumar T.S., 2017, Impact of sea level rise and coastal slope on shoreline change along the Indian coast, **Natural Hazards.** 89(3), DOI:10.1007/s11069-017-3018-9, 1227-38.

259. Mohanty P.C., Venkateshwaran P., Mahendra RS., Kumar Shiva, Kumar, T. Srinivasa, Vinithkumar N.V., Ramalingam K, Sethuraman R, Raju R, Dharmaraj S., Prakash V.D., Ramadasss G.A., Shenoi S.S., 2017, Coral Bleaching Along Andaman Coast Due to Thermal Stress During Summer Months of 2016: A Geospatial Assessment, **American Journal of Environmental Protection,** 6,1, DOI:10.11648/j.ajep.20170601.11, 1-6.

260. Mukherjee A., Shankar D., Chatterjee A., Vinayachandran P.N. 2017, Numerical simulation of the observed near-surface East India Coastal Current on the continental slope, **Climate Dynamics,** DOI:10.1007 /s00382-017-3856-x , 1-32.

261. Mukhopadhyay S., Shankar D., Aparna S.G., Mukherjee A., 2017, Observations of the sub-inertial, near-surface East India Coastal Current, **Continental Shelf Research,** 148, DOI:10.1016/j.csr. 2017.08.020I, 159-177.

262. Murty P.L., Padmanabham J., Kumar T.S., Kumar N.K., Chandra V.R., Shenoi S.S., Mohapatra M., 2017, Real-time storm surge and inundation forecast for very severe cyclonic storm 'Hudhud', **Ocean Engineering,** 131, DOI:10.1016/ j.oceaneng.2016.12.026, 25-35.

263. Nagarjuna A. and Mohan D., 2017, Biochemical and Risto-pathological Changes Induced by Nickel in the striped Mullet, Mugil cephalus Linnaeus 1758, **Bulletin of environmental contaminationand toxicology,** 98,1, DOI:10.1007 /s00128- 016-1961-x, 33-40.

264. Narayanaswamy V., Arunachalam U., Gidugu Ananda R., 2017, Finite element analysis on the overload and short circuit Ampacities of Kevlar Armored subsea power cable, **Marine Technology Society Journal,** 51,3, DOI:10.4031/MTST.51.3.3, 36-42.

265. Neelima T., Noujas V., Thomas KV., Kurian N.P., 2017, Coastal morphology and beach stability along Thiruvananthapuramt, south-west coast of India, Natural **Hazards,** DOI:10.1007/s11069-017-3090-1.

266. Noufal **K.K.,** Najeem S., Latha G., Venkatesan R., 2017, Seasonal and long term evolution of oceanographic conditions based on year-around observation in Kongsfjorden, Arctic Ocean, **Polar Science,** 11, DOI:10.1016/j.polar.2016.11.001,1-10.

267. Noujas V., Thomas KV. and Ajeesh N. R., 2017, Shoreline management plan for a protected but eroding coast along the southwest coast of India, **International Journal of Sediment Research,** DOI:http://dx.doi.org/10.1016/j.ijsrc. 2017.02.004.

268. Pa d man ab an V . P . , **Verma P.,** VenkatabaskaranS., Keppayan T., Gopal D., Sekar A.K., Ramalingam K., 2017, Antimicrobial potential and taxonomic investigation of piezotolerant Streptomyces sp. NIOT-Ch-40 isolated from deep-sea sediment, **World Journal of Microbiology and Biotechnology,** 33:27, DOI:10.1007/ s11274-016-2193-2,1-6.

269. Pandey AK., Saikia D., Kumar M.R., 2017, Earthquake genesis in Nepal Himalaya: A perspective from imaging of the 25th April 2015 Mw 7.8 earthquake source zone, **Journal of Asian Earth Sciences,** 141, DOI:10.1016/j.jseaes.2016.12.039, 259-26.

270. Pandi S.R., Gundala C., Rayaprolu K., Naroju V.H., Rallabhandi M., Balivada S., Lotliker A.A., Sarma N.S., 2017, Contrastingbio-optical characteristics of coastal water prior to and in the aftermath of a tropical super cyclone, **International Journal of Remote Sensing,** 38, 12, DOI:10.1080/ 01431161.2017.12975463519-3530.

271. Parameswaran U.V., Sanjeevan V.N., Jaleel KA., Jacob V., Gopal A., Vijayan AK., Sudhakar M., 2017, An updated checklist of echinoderms of the southeastern Arabian Sea, **Marine Biodiversity,** DOI: 10.1007/ s12526-017-0732-l,1-23

272. Prakash S., Roy R., Lotliker A, 2017, Revisiting the Noctiluca scintillans paradox in northern Arabian Sea, **Current Science,** 113,7,1429-1434.

273. Pranesh S.B., Deepak Kumar, Subramanian V.A., Sathianarayanan D., Ramadass G.A., 2017, Non-linear buckling analysis of imperfect thin spherical pressure hull for manned submersible, **Journal of Ocean Engineering and Science**, 2, 4, DOI:10.1016/j.joes.2017.11.001, 293-300

274. Praveen Kumar B., Cronin M.F., Joseph S., Ravichandran M., Sureshkumar N., 2017, Latent heat flux sensitivity to sea surface temperature: Regional perspectives, **Journal of Oimate,** 30,1, DOI:10.1175/ JCLI-D-16-0285.1,129-143.

275. Rajasekhar D., Ramesh U.S., Pavankumar G.V.V., Ananthakrishna, Deepaksankar P.S., Narendrakumar D., Ramasundaram K., Ravi N., 2017, Seakeeping analysis on Indian research vessel, **IUP Journal of Mechanical Engineering,** 10, 2, 7-24.

276. Ramadass G.A., N.Vedachalam, AUmapathy, R.Ramesh, V.BalanagaJyothi, 2017, Finite Element Analysis of the Influence of 3 Ambient Temperature Variations on the 4 Performance of Fiber Optic Gyroscope 5 Sensing Coils, **Marine Technology Society Journal,** 51, 1, DOI:doi.org/10.4031 /MTSJ.51.1.2 , 16-22.

277. Ramakrishnan R., Agrawal R., Remya P.G., NagaKumar K.C.V., Demudu G., Rajawat AS., Nair B., Nageswara Rao K., 2017, Modelling coastal erosion: A case study of Yarada beach near Visakhapatnam, east coast of India, **Ocean and Coastal Management,** DOI:10.1016/ j.ocecoaman.2017.08.013, 1-10

278. Ramasamy V., Jag ad e es h K., Puniyamoorthy S., Rajagopalan L., Loganathan V., 2017, Marine biofouling on moored buoys and sensors in Northern Indian Ocean, **Marine Technology Society Journal,** 51(2), DOI:10.4031/MTSJ.51.2.ll,22-30.

279. Ramesh S., Ramadass G.A., Doss Prakash V., Sandhya C.S., Ramesh R., Sathianarayanan D., Vinithkumar N.V., 2017, Application of indigenously developed remotely operated vehicle for the study of driving parameters of coral reef habitat of South Andaman Islands, India, **Current Science**, 113, 12, 2353-2359

280. Rasheeda M.K., Rangamaran V.R., Srinivasan S., Ramaiah S.K., Gunasekaran R., Jaypal S., Gopal D., Ramalingam K., 2017, Comparative profiling of microbial community of three economically important fishes reared in sea cages under tropical offshore environment, **Marine Genomics,** 34, DOI:10.1016/j.margen.2017.04.003,57-65.

281. Remany M.C ., Kirubagaran R., Cyriac D., Varadaraju P.K., Prem O.C.S, Panda AK., Kumar J., 2017, Dataset on the importation of the exotic shrimp Penaeus vannamei broodstock (Boone, 1931) to India, **Data in Brief,** 11,DOI: 10.1016/j.dib.2017.02.034, 527-532.

282. Sadhu S., Kirubagaran R., 2017, Morphology and phenotypic responses of haptophyceae marine microalga *Pavlova lutheri* during Cr (VI) exposure - A laboratory study, **Indian Journal of Geo- Marine Sciences,** 46, 4, 719-724.

283. Sahoo S., Baliarsingh S.K., Lotliker A.A., Pradhan U.K., Thomas C.S., Sahu K.C., 2017, Effect of physico-chemical regimes and tropical cyclones on seasonal distribution of chlorophyll-a in the Chilika Lagoon, east coast of India, **Environmental Monitoring and Assessment,** 189,4, DOI:10.1007/s10661-017-5850-5,153.

284. Sahu B.K., Baliarsingh S.K., Lotliker A.A., Parida C., Srichandan S., Sahu K.C., 2017, Winter thermal inversion and Trichodesmium dominance in north-western Bay of Bengal, **Ocean Science Journal,** 52,2, DOI:10.1007/s12601-017-0028-1, 301-306.

285. Sharma S., Sunil Kumar V., Gowthaman R., 2017, Textural characteristics and morphosedimentary environment of foreshore zone along Ganpatipule, Maharashtra, India, **Marine Georesources & Geotechnology,** 35,6, DOI: 10.1080/1064119X.2016.1259697,887-894.

286. Shijo Zacharia, Seshasayanan R., Tata Sudhakar, Atmanand M.A., Rao R.R., 2017, Observed variability of surface layer in the Central Bay of Bengal: Results of measurements using glider, **Current Science** , 113, 11, 2151-2159

287. Sirisha P., Sandhya K.G., Nair T.M.B., Rao B.V., 2017, Evaluation of wave forecast in the north Indian Ocean during extreme conditions and winter monsoon, **Journal of**

Operational Oceanography, 10, 1, DOI:10.1080/1755876X.2016.1276424,79-92.

288. Sivareddy S., Paul A., Sluka T., Ravichandran M., Kalnay E., 2017,Pre-Argo ocean reanalyses may be seriously affected by the spatial coverage of moored buoys, **Scientific** Reports,7:46685, 001:10.1038/ srep46685.

289. Sivasankar R., Sathish Kumar P., Ezhilarasan P., Naidu S.A., Rao G.D., , Kanuri V. V., Rao V. R., Ramu K., 2017, Swarm of *Tintinnopsis uruguayensis* in the estuarine waters of Kochi, Southwest coast of India, **Food Webs,** 13, DOI:10.1016/ j.fooweb.2017.08.002,30-32.

290. Srinivasan R., Jerrita S., Rajendran V., 2017, Analysis of feed forward and recurrent neural network algorithms in predicting the significant wave height from the data sets of moored buoys in the Bay of Bengal, **International Journal of Computer Technology & Applications,** 8, 2, 154-158

291. Srinivasan R., Rajendran V., Shijo Zacharia, Tata Sudhakar, Atmanand M.A., 2017, Indigenous drifting buoys for Indian Ocean observations, O**cean Engineering,** 145, DOI: 10.1016/j.oceaneng.2017.08.054, 263-267

292. Srinivasu U., Ravichandran M., Han W., Sivareddy S., Rahman H., Li Y., Nayak S., 2017, Causes for the reversal of North IndianOcean decadal sea level trend in recent two decades, **Climate Dynamics,** 49,11-12, DOI:10.1007/s00382-017-3551-y3887-3904.

293. Sundararajan S., Khadanga **M.K.,** Jeba KumarJ.P.P., RaghumaranS., Vijaya R., Jena B.K., 2017, Ecological risk assessment of trace metal accumulation in sediments of Veraval Harbor, Gujarat, Arabian Sea, **Marine Pollution Bulletin,** 114, 1, DOI:10.1016/j.marpolbul.2016.09.016, 592- 601.

294. Tata Sudhakar, Suriyakala C.D., Ramadass G.A., Shijo Zacharia, 2017, Validation of Tsunameter in laboratory Environment, **Indian Journal of Geo-marine Sciences**, 46, 9,1842-1847

295. Tata Sudhakar, Suryakala C.D., 2017, Comparison of forecasting algorithms for Tsunami detection with in-situ data, **International Journal of Engineering and Technology,** 9, 2, DOI: 10.21817/ijet/2017/v9i2/170902325, 449-453

296. Tata Sudhakar, Suryakala C.D., Nair Arathi, 2017, Estimation of Tsunami Direction and velocity using deep sea data, **Indian Journal of Science and Technology**, 10, 19, DOI:10.17485/ijst/2017/v10i19/109552, 1-8

297. Tiwari M., Pandey D.K., Clift P.D., Kulhanek D.K., Kumarand A.G., 2017, First evidence of denitrification vis-a-vis monsoon in the Arabian Sea since Late Miocene, **Nature Scientific Reports,** 7:43056, DOI:10.1038/srep43056

298. Udaya Bhaskar T.V.S., Jayaram C., Bansal S., Mohan K.K., Swain D., 2017, Generation and Validation of two Day Composite Wind Fields from Oceansat-2 Scatterometer, **Journal of the Indian Society of Remote Sensing,** 45, 1, DOI: 10.1007/ s12524-016-0566-5,113-122.

299. Umesh P.A., Bhaskaran P.K., Sandhya KG., Nair, T.M.B., 2017, Assessment on the impact of wind forcing on simulation and validation of wave spectra at coastal Puducherry, east coast of India, **Ocean Engineering,** 139, DOI:10.1016/j.oceaneng. 2017.04.043.14-32.

300. Venkatesan R., Senthilkumar P., Vedachalam N., Murugesh P., 2017, Biofouling and its effects in sensor mounted moored observatory system in Northern Indian Ocean, **International Biodeterioration & Biodegradation,** 116, DOI:10.1016/j.ibiod.2016.10.034.198-204.

301. Verma P., Raghavan RV., Jeon C.O., Lee H.J., Priya P.V., Dharani G., Kirubagaran R., 2017, Complex bacterial communities in the deep-sea sediments of the Bay of Bengal and volcanic Barren Island in the Andaman Sea, **Marine genomics,** 31, DOI:10.1016/ j.margen.2016.08.003, 33-41.

PACER

302. Anilkumar N., Sahu P., 2017, Physical Process Influencing the Ecosystem of the Indian Sector of Southern Ocean-An Overview, **Proceedings of the Indian National Science Academy,** 83, 2, DOI: 10.16943/ptinsa/2017/ 48960, 363-376.

303. Anilkumar N., George, J. V., 2017,Seasonal surface chlorophyll a variability in the Seychelles Chagos Thermocline Ridge, **Current Science,** 154, DOI:10.1016/ j.jmarsys.2015.10.011,220-232.

304. Antony R., Amanda W., Amanda G., Victoria C., Rachel S., Thamban M., Patrick H. and Shanta N., 2017, Molecular insights on dissolved organic matter transformation by supraglacial microbial communities, **Environmental Science** & **Technology,** 51,8, DOI:10.1021/acs.est.6b05780.4328-4337.

305. Dhaneesha M., Benjamin N. C., Krishnan K. P., Sinha R., Jayesh P., Joseph V., Bright Singh I. S., Gerwick W. H., Sajeevan T. P., 2017, Streptomyces artemisiae MCCB 248 isolated from Arctic fjord sediments has unique PKS and NRPS biosynthetic genes and produces potential new anticancer natural products, **3 Biotech,7,1,** DOI: 10.1007/s13205-017-0610-3.

306. Htipers A., M. E. Torres, S. Owari, L. C. McNeill, B. Dugan, T. J. Henstock, K. L. Milliken, K. E. Petronotis, J. Backman, S. Bourlange, Jr. F. Chemale, W. Chen, T. A. Colson, C. G. Marina, G. Frederik Guerin,
M. Hamahashi, B. M. House, T. N. Jeppson,

S. Kachovich, A. R. Kenigsberg, M. Kuranaga, S. Kutterolf, F. L. Mitchison, H. Mukoyoshi, **N.Nair,** K. T. Pickering, H.F. A.Pouderoux, Y. Shan, I. Song, P. Vannucchi,
P. J. Vrolijk, T. Yang, X. Zhao, 2017, Releaseof mineral-bound water prior to subductiontied to shallow seismogenic slip off Sumatra. **Science,** 356, DOI:10.1126/ science.aal3429,841-844

307. Jain A., Krishnan K. P., 2017, A Glimpse of the diversity of complex polysaccharide degrading culturable bacteria from Kongsfjorden, Arctic, **Annals of Microbiology.** DOI: 10.1007/ s13213-016- 1252-0.

308. Jain A. and Krishnan K. P., 2017, Differencesin free-living and particle-associated bacterial communities and their spatial variation in Kongsfjorden, Arctic, **Journal of Basic Microbiology,** DOI:10.1002/ jobm.201700216.

309. Jena B., 2017, The effect of phytoplankton pigment composition and packaging on the retrieval of chlorophyll-a concentration from satellite observations in the Southern Ocean, **International Journal of Remote** Sensing, 38, 13, DOI:10.1080/ 01431161.2017. 1308034

310. Li Yuanlong, Weiqing H., Wang W.,Ravichandran M,, Lee T. and Shinoda T.,2017, Bay of Bengal Salinity Stratification and IndianSummer Monsoon Intraseasonal Oscillation: 2. Impact on SST and convection, **Journal of Geophysical Research: Oceans,** DOI:10.1002/ 2017JC012692.

311. Luis A. J., Lotlikar V., 2017, HydrographicCharacteristics of a Coastal Antarctic Transect in the Indian Ocean Sector, **Proceedings of the Indian National Science Academy,** 83(2), 497-504.

312. Mahesh B. S, Warrier A. K., Mohan R., Tiwari M., Roy **R.,** Asthana R., Ravindra R.,2017, Response of Sandy Lake in Schirmacher Oasis, East Antarctica to the glacial-interglacial climate shift, **Journal of Paleolimnology,** DOI: 10.1007/s10933-017- 9977-8.

313. Matul A., Mohan R., 2017, Distribution of Polycystine Radiolarians in Bottom Surface Sediments and Its Relation to Summer Sea Temperature in the High-Latitude North Atlantic, **Frontiers in Marine Science,** DOI:10.3389/fmars.2017.00330.

314. McNeill L.C., Dugan B., Backman J., Pickering K.T., Pouderoux H. F. A., Henstock T. J., Petronotis K. E., Carter A., Chemale Milliken Jr. F., Kutterolf K.L., Mukoyoshi S., Chen H., Kachovich W., Mitchison S., Bourlange F. L., Colson S., Marina T. A., Frederik C. G., Guerin G., Hamahashi M., House B. M., Hupers A., Jeppson T. N., Kenigsberg A. R., Kuranaga M.,

Nair N., Owari S., Shan Y., Song I. , TorresM.E., VannucchiP., VrolijkP.J., Yang T., Zhao X., Thomas E., 2017, UnderstandingHimalayan erosion and the significance of the Nicobar Fan, **Earth and Planetary Science Letters,** 475, DOI:/10.1016/ j.epsl.2017.07.019,134-142

315. Mishra R. K., Jena B., Anilkumar N., Sinha R. K., 2017, Shifting of phytoplankton community in the frontal regions of Indian Ocean sector of the southern Ocean using in situ and satellite data, **Journal of Applied Remote Sensing,** 11(1) DOI:10.1117 / 1.JRS.11.016019

316. Mishra R. K.,Jena B., Anilkumar N., Bhaskar P. V., Soares M., 2017, Variability of chlorophyll-a and diatoms in the frontal ecosystem of Indian Ocean sector of the Southern Ocean, **Polish Polar Research,** 38(3), DOI:10.1515/popore-2017-0014, 375- 392

317. Mohan M., Chandini P.K., Krishnan K. P., Gopikrishna V. G., Sajin Kumar K. S., Kannan V.M., 2017, Mercury Fractionation in the Sediments of Kongsfjorden, an Arctic Fjord, Svalbard, **Polish Polar Research,** 7(26), DOI:10.5376/ ijms.2017.07.0026.

318. Nagoji S. S., Tiwari M., 2017, Organic Carbon Preservation in Southeastern Arabian SeaSediments since mid-Holocene: Implications to South Asian Summer Monsoon Variability, **Geochemistry, Geophysics, Geosystems,** 18(9), DOI: 10.1002/ 2017GC006804

319. Nair A., Mohan R., 2017, Paleoclimatic Signals from the Proxy Records of the Southern Ocean: A Review, **Proceedings of the Indian National Science Academy** 83,2, DOI:10.16943/ptinsa/2017/ 48949

320. PAGES 2k Consortium, 2017, A global multiproxy database for temperature reconstructions of the Common Era, **Scientific Data,** 4, DOI:10.1038/ sdata. 2017.88.

321. Pandey D.K., Nair N., Pandey A., Sriram G., 2017, Basement tectonics and flexural subsidence along western continental margin of India, **Geoscience Frontiers;** 8, DOI:10.1016/j.gsf.2016.10.006,1009-1024

322. Pandey D. K., Goll A., Prerna R., Pandey A.,2017, Late Cenozoic seismic stratigraphy of the Andaman Forearc Basin, Indian Ocean, Petroleum Science, 14,4, DOI.10.1007/s12182-017-0197-7,648-661

323. Patil S., Mohan R., Shetye S., Gazi S., Baumann K.H., Jafar S., 2017, Biogeographical distribution of extant Coccolithophores in the Indian Sector of the Southern Ocean,Marine **Micropaleontolgy** 137, DOI:10.1016/j.marmicro.2017.08.002. 16-30.

324. Patra S., Ganguly D., Tiwari M., Vishnu Vardhan K., Muduli P.R., Robin R.S., Abhilas K.R., Charan Kumar B., Nagoji S.S.,Raman A. V., Subramanian B. R., 2017, Isotopic composition (C & N) of the suspended particles and N uptake by phytoplankton in a shallow tropical coastal lagoon, **Chemistry and Ecology,** 33(8),DOI: 10.1080/02757540.2017.1356292,708-724

325. Proceedings of the Indian National Science Academy, 83,2, 245-512, Thematic Issue: Recent Antarctic Research in India: The National Committee Report to SCAR (2017), Edited by Dr Shailesh Nayak and the INSA National Committee.

326. Rahaman W., Wittmann H., Blanckenburg F., 2017, Denudation rates and the degree of chemical weathering in the Ganga basin from ratios of meteoric cosmogenic 10Be to stable 9Be.,469, **Earth and Planetary Science Letters,** DOI:10.1016/j.epsl.2017. 04.001.156-169

327. Salam S., Lekshmi S., Silvester R., Krishnan K. P., Saramma A. V. Hatha A. A., 2017, Effect of environmental factors on growth and enzyme production of cold adapted bacteria from water and sediment of Kongsfjord, Ny-Alesund, Norwegian Arctic, **Journal of Environmental Biology,** 38,4, DOI:10.22438/jeb/38/4/ms-237

328. Samui G., Antony R., Mahalinganathan K., Thamban M., 2017, Spatial variability and possible sources of Acetate and Formate in the surface snow of East Antarctica, **Journal of**

Environmental Sciences, 57, DOI:10.1016/j.jes.2017.02.003258-269.

329. Singh A., Krishnan K. P., Prabaharan D., Sinha R. K., 2017, Lipid Membrane Modulation and Pigmentation: A Cryoprotection Mechanism in Arctic Pigmented Bacteria, **Journal of Basic Microbiology,** DOI: 10.1002/jobm. 201700182.

330. Singh S. **M.,** Nayaka S., 2017, Contribution to the Floral Diversity of Schirmacher Oasis and Larsemann Hills, Antarctica, **Proceedings of the Indian National Science Academy,** 90, DOI:10.16943/ ptinsa/2017/ 48957

331. Singh S. M., Avinash K., Sharma P., Mulik R. U., Upadhyay A. K., Ravindra R., 2017., Elemental variations in glacier cryoconites of Indian Himalaya and Spitsbergen, Arctic, **Geoscience Frontiers,DOI:** http:// dx.doi. org/10.1016/j.gsf.2017.01.002

332. Singh A., Laluraj C. M., Parmanand S., Lavkush,K. P., Thamban M., 2017, Export fluxes of geochemical solutes in the meltwater stream of Sutri Dhaka Glacier,Chandra Basin, Western Himalaya., **Environmental Monitoring and Assessment,** 189(11), DOI:10.1007 /s10661- 017-6268-9,555.

333. Singh P., Singh S. M., Singh R. N., Naik S., Roy U., Srivastava A., Bolter M., 2017, Bacterial communities in ancient permafrost profiles of Svalbard, Arctic, **Journal of Basic Microbiology,** DOI:10.1002/jobm.201700061.

334. Sinha A. K., Dhar A., Singh A. K., Behera **J.**K., Gurubaran S., 2017, India's Contributionto Geomagnetism and Allied Studies in Antarctica, **Proceedings of the Indian National Science Academy,** 83(2), DOI:10.16943/ptinsa/2017/ 48955, 299-326.

335. Sinha R. K., Krishnan K. P., Kerkarand S., David D. T., 2017, Influence of glacial melt and Atlantic water on bacterioplankton community of Kongsfjorden, an Arctic fjord, **Ecological Indicators,** 82, DOI:10.1016/j.ecolind.2017.06.051, 143-151.

336. Sinha R. K., Krishnan K. P., Hatha A. A., Rahim.an M., Thresyamma D.D., Kerkar S., 2017, Diversity of retrievable heterotrophic bacteria in Kongsfjorden, an Arctic fjord, **Brazilian Journal of Microbiology.** 48, DOI:10.1016/j.bjm.2016.09.011, 51-61.

337. Sinha R. K., Krishnan K. P., Kurian J., 2017, Draft Genome Sequence of Idiomarina sp. strain 5.13, a highly stress-resistant bacterium isolated from the Southwest Indian Ridge, **Genome Announcement,** 5(10), DOI:10.1128/ genomeA.01747-16.

338. Sinha R.K., Krishnan K.P., Singh A., Thomas Jain F.A., Kurian J., 2017, Alteromonas pelagimontana sp. nov., a marine exopolysaccharide-producing bacterium isolated from the Southwest Indian Ridge, **International Journal of Systematic and Evolutionary Microbiology,** DOI: 10.1099/ijsem.0.002245

339. Sivareddy S., Paul A., Sluka T., Ravichandran M., Kalnay E., 2017, The pre- Argo ocean reanalyses may be seriously affected by the spatial coverage of moored buoys. **Scientific Reports,** DOI:10.1038/ srep46685.

340. Soares M., Anilkumar N., 2017, Indian Contributions to Chemical Studies in the Indian Sector of Southern Ocean, **Proceedings of the Indian National Science Academy,** 83(20), DOI:10.16943/ ptinsa/2017/48961

341. Srinivasu U., Ravichandran M., Han W., Sivareddy S., Rahman H., Li Y., Nayak S., 2017, Causes for the reversal of North Indian Ocean decadal sea level trend in recent two decades, **Climate Dynamics,** DOI:10.1007/s00382-017-3551-y.,1-8

342. Sukigara C., Mino Y., Tripathy S. C., Ishizaka **J.,** Matsuno T., 2017, Impacts of the Changjiang diluted water on sinking processes of particulate organic matters in the East China Sea, **Continental Shelf Research,** 151, DOI: 10.1016 / j.csr.2017.10.012.,84-93.

343. Tripathi S., Tiwari M., Lee **J.,** Khim Boo- Keun and IODP Expedition 355 Scientists, 2017, First evidence of denitrification vis-a.- vis monsoon in the Arabian Sea since Late Miocene. **Scientific Reports,** 7, DOI: 10.1038/srep43056

344. Tripathy S. C., Mishra R.K., Naik R. K., 2017,Progress in Southern Ocean biology from the Indian Sector: half-decadal (2009-13) overview, **Proceedings of the Indian National Science Academy,** 83, 2, DOI:10.16943/ptinsa/2017I48962, 385-398.

345. Tripathy S. C., Patra S., Vardhan K. V., Sarkar A, Anilkumar N., 2017, Nitrogen uptake by phytoplankton in surface waters of the Indian sector of Southern Ocean during austral summer., **Frontiers of Earth Science,** DOI 10.1007/s11707-017-0649-9, 1-11

346. Venkataramana V.,Tripathy SC, AnilkumarN P, 2017, The occurrence of blue- pigmented Pontella valida Dana, 1852 (Copepoda: Calanoida: Pontellidae) in the equatorial Indian Ocean, Journal of Crustacean Biology, 37, 4, DOI.10.1093/ jcbiol/rux037, 512-515.

347. Kumar G.V., Kulkarni AV., Gupta A K., Sharma P., 2017, Mass balance estimation using geodetic method for glaciers in Baspa basin, Western Himalaya, **Current Science,** 113,3,DOI:10.18520 /cs/v113/i03/ 486- 492.486-492.

348. Kumar G.V., Kulkarni AV., Gupta A K., 2017. Reconstruction of Specific mass balance for glaciers in Western Himalaya using Seasonal Sensitivity Characteristic(s), **Journal of Earth System Science,** DOI:10.1007/s12040-017-0839-6

349. Warrier AK., Mahesh B.S., Mohan R., 2017, Lake Sediment Studies in Ice-Free Regionsof East Antarctica - An Indian Perspective, **Proceedings of the Indian National Science Academy,** 83,2, DOI:10.16943/ ptinsa/2017/ 48950289-297.,289-297

350. Yuanlong Li., Weiqing H., Ravichandran M., Wang W., Shinoda T., Lee T., 2017, Bayof Bengal Salinity Stratification and Indian Summer Monsoon Intraseasonal Oscillation: 1. Intraseasonal Variability and Causes, **Journal of Geophysical Research: Oceans,** 122, 5,DOI:10.1002/2017JC012691., 4291-4311

351. Zhu Y., Ishizaka J., Tripathy S. C., Wang S., Sukigara C., Goes J., Matsuno T., Suggett D.J., 2017, Relationship between light, community composition and the electron requirement for carbon fixation in natural phytoplankton, **Marine Ecology Progress Series,** 580,DOI:10.3354/meps12310 83-100.

SAGE

352. Catherine J.K., Uma Maheshwari D., Gahalaut V.K., Roy P.N.S., Khan P.K., Puviarasan N., 2017, Ionospheric disturbances triggered by the 25 April 2015 M7.8 Gorkha earthquake, Nepal: Constraints from GPS TEC measurements, **Journal of Asian Earth Sciences,** 133, DOI:10.1016 /j.jseaes.2016.07.014,80-88.

353. Chakraborty S., Mukhopadhyay D.K., Chowdhury P., Rubatto D., Anczkiewicz R., Trepmann C., Gaidies F., Sorcar N., Dasgupta S., 2017, Channel flow and localized fault bounded slice tectonics (LFBST): Insights from petrological, structural, geochronological and geospeedometric studies in the Sikkim Himalaya, NE India, **Lithos,** 282-283, DOI:10.1016 /j.lithos.2017.01.024, 464-482.

354. Chingtham P., Prajapati S.K., Gahalaut V.K., Chopra S., Roy P.S., 2017, Forecasting seismicity rate in the north-west Himalaya using rate and state dependent friction law, **Geomatics, Natural Hazards and Risk,** 8(2), DOI:10.1080/19475705.2017.1369168, 1643-1661.

355. Debbarma J., Martin S.S., Suresh G., Ahsan A., Gahalaut V.K., 2017, Preliminary observations from the 3 January 2017, MW 5.6 Manu, Tripura, (India) earthquake, **Journal of Asian Earth Sciences,** 148, DOI:10.1016/j.jseaes.2017.08.030.173-180.

356. Dixit M., Singh AP., Mishra O.P., 2017, Rayleigh wave group velocity tomography of Gujarat region, Western India and its implications to mantle dynamics, **Journal of Seismology,** 21(4), DOI:10.1007/s10950- 016-9636-y, 809-823.

357. Dubey C.P., Tiwari V.M., Rao P.R., 2017, Insights into the Lurking Structures and Related Intraplate Earthquakes in the Region of Bay of Bengal Using Gravity and Full Gravity Gradient Tensor, **Pure and Applied Geophysics,** 174(12), DOI:10.1007/s00024-017-1661-4,4357-4368.

358. Dutta P.K., Mishra O.P., 2017, Identification of collision mechanism at seismogenic fault interface using finite element analysis involving plate bending applications using ant colony optimization, **Journal of Applied Engineering Sciences,** 7(1), DOI:10.1515/jaes-2017-0002, 15-22.

359. Gahalaut K., Hassoup A., Hamed H., Kundu B., Gahalaut V., 2017, Long term andannual influence of Aswan reservoir (Egypt) on the local seismicity - a spatio- temporal statistical analysis, **Pure and Applied Geophysics,** 174(1), DOI: DOI:10.1007/s00024-016-1397-6,133-150.

360. Gahalaut V.K., Yadav R.K., Sreejith K.M, Gahalaut K., Burgmann R., Agrawal R., Sati S.P, Bansal A., 2017, InSAR and GPS measurements of crustal deformation due to seasonal loading of Tehri reservoir in Garhwal Himalaya, India, **Geophysical Journal International,** 209(1), DOI: 10.1093/ gji/ ggx015,425-433.

361. Gautam P.K, Gahalaut V.K, Prajapati S.K, Kumar N., Yadav R.K, Rana N., Dabral C.P., 2017, Continuous GPS measurements of crustal deformation in Garhwal-Kumaun Himalaya, **Quaternary International,** 40, DOI:10.1016/j.quaint.2017.05.043., 124-129.

362. Ghavri S., Catherine J.K, Ambikapathy A., Kumar A., Gahalaut V.K, 2017, Antarctica Plate Motion, **Proceedings of the Indian National Science Academy,** 83(2), DOI:10.16943/ptinsa/2017/ 48951,437-440.

363. Goswami D., Akkiraju V.V., MisraS., RoyS., Singh S.K, Sinha A., Gupta H., Bansal B.K, Nayak S., 2017, Rock strength measurements on Archaean basement granitoids recovered from scientific drillingin the active Koyna seismogenic zone, western India, **Tectonophysics,** 712-713,DOI:10.1016/j.tecto.2017.05.029,182-192.

364. Goswami D., Akkiraju V.V., Singh S.K, Shalivahan S. and Roy S., 2017, Rock strength and elastic properties of basement granitoids from Koyna region, Deccan Volcanic Province, India, **Journal of Geological Society of India,** 90, 783-787

365. Hazarika P., Yadav A.,Roy S., 2017, Influence of permeability in modeling of reservoir triggered seismicity in Koyna region, Western India, **Journal of Geological Society of India,** 90, 728-732.

366. Hüpers A., Torres M.E., Owari S., McNeill L.C., Dugan B., Henstock T.J., ... Zhao X., 2017, Release of mineral-bound water prior to subduction tied to shallow seismogenic slip off Sumatra, **Science**, 356, 6340, DOI:10.1126/science.aal3429, 841-844

367. John S.E., Rajimol T.R., Vishnu Mohan S., Maya K, Padmalal D., 2017, Environmental degradation of a tropical estuary due to human interferences- A case study from Southern Kerala, SW India, **Arabian Journal of Geosciences,** 10:352, DOI 10.1007/s12517-017-3112-z.

368. Kaliraj S., Chandrasekharan N., Ramachandran KK, Saravanan S., 2017, Coastallanduseandlandcoverchangeandtransformations of Kanyakumari coast, India using remote sensing and GIS, **Egyptian Journal of Remote Sensing and Space Science,** 20(2), DOI: 10.1016/ j.ejrs.2017.04.003,169-185.

369. Krishnakumar A., Saranya P., Das R., 2017, Hydrogeochemistry and environmental issues of the wetlands of Kerala, Southwestern India, **Wetland Science,** DOI:10.1007/978-81-322-3715-0_8,145-161.

370. Krishnakumar K, Das **R.,** Saranya P., 2017, Assessment of the quality of water resources in coastal urban lands of two small catchment rivers, Southwest India, **Management of Environmental Quality: An International Journal,** 28(3), DOI:10.1108 /MEO-01-2015-0002, 444-459.

371. Krishnan KA., Sreejalekshmi KG., Dev V.V., Antony S., Mahadevan H., 2017, Removal of Cu(II) from aqueous phase using tailor made sulphur impregnated activated carbon inspired by Claus Process, **Desalination and Water Treatment,** 80, DOI:10.5004/ dwt.2017.20964, 214-222.
372. Kundu B., Panda, D., Gahalaut, V.K., Catherine J.K., 2018, 2017 August 21 American total solar eclipse through the eyes of GPS, **Geophysical Journal International**, 214, 1, DOI:10.1093/gji/ggy149, 651-655
373. Madhumita, Mishra 0. P.,2017, Internet use-behaviour vis-a-vis e-learning by Post Graduate students, **Journal of Community Mobilization and Sustainable Development,** 12(1), 37-42.
374. Maya K, Vishnu Mohan S., Limaye **R.B.,** Padmalal D., Kumaran N.KP., 2017, Geomorphic response to sea level and climate changes during Late Quaternary in a humid tropical coastline: Terrain evolution model from Southwest India, **Plos** One,.DOI:10.1371/journal.pone. 0176775,1-32.
375. McNeill L.C., Dugan B., Backman J., Pickering K.T., Pouderoux H. F.A., Henstock T.J., ... Thomas E., 2017, Understanding Himalayan erosion and the significance of the Nicobar fan, **Earth and Planetary Science Letters**, 475, DOI:10.1016/j.epsl.2017.07.019, 134-142
376. Mishra S., Misra S., Vyas D., Nikalje D., Warhade A. and Roy S., 2017, A 1251m- thick Deccan flood basalt pile recovered by scientific drilling in the Koyna region, Western India, **Journal of Geological Society of India,** 90, 788-794.
377. Misra S., Bartakke V., Athavale G., Akkiraju V.V., Goswami D. and Roy S., 2017, Granite-gneiss basement below Deccan Traps in the koyna region, Western India: outcome from Scientific Drilling, **Journal of Geological Society of India,** .90, 776-782
378. Misra S., Roy S., Bartakke V., Athavale G., and Gupta H., 2017, Fissures and fractures in the Koyna seismogenic zone, Western India, **Journal of Geological Society of India,** 90, 2, DOI:10.1007/s12594-017-0690-z, 131-137.
379. Nagendra R., Nagarajan R., Prakash T.N., Verghees T.I., 2017, Metal enrichment in core sediments and their possible impact, the Ashtamudi estuary, Southern Kerala, India, **Journal of Indian Association of Sedimentologists,34,**1&2, 127-139.
380. Nair H.C., Padmalal D, Joseph A., Vinod P.G., 2017, Delineation of ground water potential zones in river basins using geospatial tools- an example from Southern Western Ghats, Kerala, India, **Journal of Geovisualization and Spatial Analysis,** 1:5, DOI:10.1007/s41651-017-0003-5,1-16.
381. Pandey D.K., Nair N., Pandey A.,Sriram, G., 2017 Basement tectonics and flexural subsidence along western continental margin of India. **Geoscience Frontiers,** 8, 5, 1009-1024 DOI:10.1016/j.gsf.2016.10.006.
382. Pandey S. J., Bhat G. M., Puri S., Raina N.,Singh Y., Pandita S. K., Mithila Verma, SutarA., Bansal B. K., **2017,** Seismotectonic study of Kishtwar region of Jammu Province using local broadband seismic data, **Journal of Seismology,** 21, 3, DOI:10.1007/ s10950- 016-9614-4, 525-538.
383. Prakash R., Srivastava H. N., 2017, Diurnal variations of outgoing long wave radiation (OLR) vis-a-vis 4 January, 2016 Manipur earthquake (Mw:6.7): An earthquake precursor? **Mausam,** 68,3, 475-486.
384. Radhakrishna T., Soumya G.S., Satyanarayana K.V.V., 2017, Palaeomagnetism of the Cretaceous Lamproites from Gondwana basin of the Damodar Valley in India and migration ofthe Kerguelen plume in the Southeast Indian Ocean, **Journal of Geodynamics,** 109, DOI:10.1016/j.jog.2017.05.001, 1-9.
385. Ragi M.S., Saranya P., Krishnakumar A., Upendra B., Liji T.M., Anoop Krishnan K., Padmalal D., 2017, Geochemistry of heavy metals and CHNS composition in the sediments of Netravathi River Basin: Insights into the pollution aspects, **Journalof Indian**

Association of Sedimentologists, 34,1&2,121-125.

386. Rao N.P., Burgmann R., Mugnier J.L., Gahalaut V. K., Pandey AK., 2017,25 April2015 Gorkha Earthquake in Nepal Himalaya (Part I) Preface, **Journal of Asian Earth Sciences,** 133,1, DOI: 10.1016/ j.jseaes.2016.11.025.

387. Rao N.P., Bfirgmann R., Mugnier J.L., Gahalaut V.K., Pandey A., 2017, 25 April 2015 Gorkha Earthquake in Nepal Himalaya (Part 2), **Journal of Asian Earth Sciences,** 141, Part B, 235, DOI: 10.1016/j.jseaes.2017.05.038.

388. Roy S., 2017, Scientific drilling in Koyna region, Maharashtra, **Current Science,** 112, DOI:10.18520 / cs/vl12/il1/2181-2181, 2181.

389. Sharma B., Chingtham **P.,** Sharma V., Kumar V., Mandal H.S., Mishra O.P., 2017, Characteristic ground motions of the 25th April 2015 Nepal earthquake (Mw 7.9) and its implications for the structural design codes for the border areas of India to Nepal, **Journal of Asian Earth Sciences,** 133, DOI:10.1016/j.jseaes.2016.07.021.12-23.

390. Shynu R., Rao V.P., Samiksha S.V., Vethamony P., Naqvi S.W.A., , Kessarkar P.M., Babu M.T., Dineshkumar P.K., 2017, Suspended matter and fluid mud off Alleppey, southwest coast of India, **Estuarine,Coastal and Shelf Science,** 185, DOI:10.1016/j.ecss.2016.11.023.31-43.

391. Soumya G.S., Asanulla **RM.,** Radhakrishna T., 2017, Rockmagnetism in relation to magnetic mineralogy of anorthosites in the southern granulite region of the Indian shield, **Geophysical Journal International,** 209(3), DOI:10.1093/gji/ggx134. 1768-1778.

392. Soumya G.S., Radhakrishna T., 2017, Garnet in the Neoproterozoic Oddanchatram Anorthosite in the southern granulite terrain, India: A petrological puzzle, **Journal of Geology,** 125,4, DOI:10.1086/ 692330, 459-467.

393. Sreekanth T.S., Varikoden H., Sukumar N., Mohan Kumar G., 2017, Microphysical characteristics of rainfall during different seasons over a coastal tropical station using disdrometer, **Hydrological Process,** 31, 14, DOI:10.1002/hyp.112022556-2565.

394. Srinivas R., Shynu R., Sreeraj M.K., , Ramachandran K.K.., 2017, Trace metal pollution assessment in the surface sediments of nearshore area, off Calicut, southwest coast of India, **Marine Pollution Bulletin,** 120,1-2, DOI:10.1016/ j.marpolbul.2017.05.028,370-375.

395. Sumesh R.K., Rajeevan K., Resmi E.A., Unnikrishnan C.K., 2017, Particulate Matter Concentrations in the Southern Tip of India:Temporal Variation, Meteorological Influences, and Source Identification, **Earth Systems and Environment,** 1:13, DOI:10.1007/s41748-017-0015-9,1-18.

396. Tiwari S., Mishra S., Sriharipraśad G., Vyas D., Warhade A., Nikalje D., Bartakke V., Mahesh B., Tembhurnikar P. and Roy S., 2017, High resolution core scan facility at BGRL-MoES, Karad, India, **Journal of Geological Society of India,** 90, 795-797

397. Vandana A., Kumar S., Gupta C., MishraO.P., Kumar A., 2017, Source parametersand high frequency characteristics of localevents (0.Sd" MLd" 2.9) around Bilaspurregion of the Himachal Himalaya, **Pure and Applied Geophysics,** 174,4, DOI:10.1007/ s00024-017-1493-2,1643-1658.

398. Verma M., Sutar AK., Bansal B.K, 2017, Source Parameters of rt April 2015 Chamoli earthquake (Mw 4.8) vis-a-vis seismotectonics of the region, **Journal of Geological Society of India,** 89,5, DOI:10.1007/s12594-017-0636-5,491-496.

399. Yadav A., Gahalaut K., Rao N.P., 2017, 3-D Modeling of pore pressure diffusion beneath Koyna and Warna Reservoirs, Western India, **Pure and Applied Geophysics,** 174, 5, DOI:10.1007/s00024- 017-1519-9, 2121-2132.

400. Yadav R.K., Roy P.N.S., Gupta S.K., Khan P.K., Catherine J.K., Prajapati S.K., Kumar A., Puviarasan N., Bhu H., Devachandra M., MalikJ., Kundu B., Debbarma C., Gahalaut V.K.,

2017, Rupture model of Mw 7.8 2015 Gorkha, Nepal earthquake: Constraints from CPS measurements of coseismic offsets, **Journal of Asian Earth Sciences,** 133, DOI:10.1016/j.jseaes.2016.04.015,56-61

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