



## Dr. P. K. Saji

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| <b>PERSONAL DETAILS</b> |   |
|-------------------------|---|
| Residential Address     | Nandanam,<br>Near Kannamkulam,<br>Changampuzha Nagar P. O.,<br>South Kalamasserry,<br>Kochi 682033<br>Kerala, India |
| Date of Birth           | 30-05-1971  |
| Nationality             | Indian  |
| Marital Status          | Married   |
| Sex                     | Male  |

| <b>ACADEMIC QUALIFICATIONS</b> |                     |   |                       |
|--------------------------------|---------------------|---|-----------------------|
| <i>Degree</i>                  | <i>Year of Pass</i> | <i>University</i>   | <i>Class/Division</i> |
| Ph. D.                         | 2016                | Cochin University of Science and Technology, Cochin, Kerala | -                     |
| M. Sc. Oceanography            | 1995                | Cochin University of Science and Technology, Cochin, Kerala | First Class           |
| B. Sc. Physics                 | 1992                | M. G. University, Kottayam, Kerala                          | First Class           |

| <b>COMPUTER SKILL</b>   |                               |
|-------------------------|-------------------------------|
| Operating Systems       | Microsoft Windows, Linux      |
| Programming Languages   | Fortran, C, Matlab/Octave     |
| Oceanographic Softwares | Ferret, Generic Mapping Tools |
| Others                  | HTML, GNU Latex               |

## **OFFICIAL RESPONSIBILITIES**

- Member of Senate of CUSAT
- Member of Board of Studies of CUSAT
- Member of Faculty of Marine Sciences of CUSAT
- Member of Academic Committee of CUSAT
- Member of Standing Committee for SC/ST in CUSAT
- Administrator for Department Website (<http://dpo.cusat.ac.in>)

## **TEACHING SUBJECTS**

- Introductory Physical Oceanography
- Geophysical Fluid Dynamics
- Computer Programming
- Ocean Atmosphere Interaction
- Ocean Modeling
- Computer Practicals: Fortran, Matlab/Octave, Ferret, GMT

## **RESEARCH INTEREST**

- Ocean Circulation
- Climate Change
- Ocean Warm pool
- Air Sea Interaction

## **TRAINING PROGRAMS ATTENDED**

|   |  |   |                                |
|---|--|---|--------------------------------|
| 1 | SERC School on "Advanced Geophysical Fluid Dynamics (Dynamics of Monsoons: Observations, Theory and Modelling) | Indian Institute of Tropical Meteorology, Pune    | 21-05-1996<br>to<br>22-06-1996 |
| 2 | Training course on "Remote Sensing and its Application to Oceanography, Marine Science and Fisheries"          | Orissa Remote Sensing Application Center, Orissa. | 22-07-1996<br>to<br>17-08-1996 |
| 3 | Refresher Course in "Physics and Dynamics of the Atmosphere"   | Department of Atmospheric Sciences, CUSAT, Kochi. | 26-11-2001<br>to<br>17-12-2001 |

|   |   |  |                                |
|---|---|--|--------------------------------|
| 4 | Windows NT and Networking Essentials      | Lakhotia Computer Center (LCC), Cochin                     | 24-04-2002                     |
| 5 | Orientation Programme (IT Oriented)       | UGC Academic Staff College, Kerala University, Trivandrum. | 07-12-2006<br>to<br>03-01-2007 |
| 6 | Refresher Course in Environmental Science | UGC Academic Staff College, Kerala University, Trivandrum. | 16-01-2014<br>to<br>05-02-2014 |
| 7 | Refresher Course in Environmental Science | UGC Academic Staff College, Kerala University, Trivandrum. | 09-01-2015<br>to<br>29-01-2015 |

| <b>SEMINAR/CONFERENCES/WORKSHOPS ATTENDED</b> |   |  |                                |
|---|---|--|--------------------------------|
| <b>Sl. No.</b>                                | <b>Title</b>  | <b>Organizing Institute</b>  | <b>Period</b>                  |
| 1   | Workshop on "Regional Ocean Modeling Systems (ROMS)"                            | Department of Physical Oceanography, CUSAT, Kochi.                     | 22-11-2012                     |
| 2   | National Seminar on "Climate Change and Marine Ecosystems – CCME - 2014"        | Department of Marine Biology, Microbiology and Biochemistry, CUSAT     | 20-03-2014<br>to<br>21-03-2014 |
| 3   | National Seminar on "Mud banks of Kerala: Status, Issues and Societal Concerns" | CSIR-National Institute of Oceanography (NIO), Regional Centre – Kochi | 10-02-2017<br>to<br>11-02-2017 |
| 4   | National Workshop on "Indian Summer Monsoon: Recent Advances"                   | Department of Atmospheric Physics, CUSAT, Kochi                        | 03-03-2017                     |

| <b>STUDENT'S PROJECT GUIDED</b> |  |                        |             |
|---------------------------------|--|------------------------|-------------|
| <b>Sl. No.</b>                  | <b>Project Title</b>   | <b>Name of Student</b> | <b>Year</b> |
| 1                               | Annual and Interannual variability of sea surface temperature and wind speed in the Indian Ocean | Sindhu Raj Parambil    | 2002        |
| 2                               | Annual and Interannual variability of latent heat flux   | Gopika N.              | 2003        |
| 3                               | qualitative study on influence of evaporation flux over Indian summer monsoon                    | Sajiv P. Chempalayil   | 2006        |
| 4                               | Comparison of heat fluxes in the western Boundary currents of the                                | Salini T. C.           | 2006        |

|   |  |               |      |
|---|--|---------------|------|
|   | world oceans during 1988   |               |      |
| 5 | Mixed layer depth variability and upwelling in the Arabian Sea                                     | Betty John K. | 2007 |
| 6 | Influence of whitecap bubbles and sea spray on air-sea heat and moisture fluxes - A review         | Amol Prakash  | 2007 |
| 7 | Heat budget analysis of Bay of Bengal  | Praveen Kumar | 2007 |
| 8 | Heat transport in northern Indian ocean: A comparative study between Arabian sea and Bay of Bengal | Remya V. R.   | 2008 |

#### **PUBLICATIONS (TECHNICAL REPORTS)**

1. Satheesh C. Shenoi, P. K. Saji, A. M. Almeida, E. P. Rama Rao, G. S. Michael, G. Nampoothiri and L. V. Gangadhara Rao (1997) Drifter Observations in the Indian Ocean (August 1993-April 1997). No. NIO/TR-2/97

#### **PUBLICATIONS (RESEARCH PAPERS)**

1. Sarma, Y.V.B.; Rao, E.P.R.; Saji, P.K.; Sarma, V.V.S.S. (1999) Hydrography and circulation of the Bay of Bengal during withdrawal phase of the southwest monsoon. *Oceanologica Acta*, 22, 453-471.
2. Shenoi, S.S.C.; Saji, P.K.; Almeida, A.M. (1999) Near-surface circulation and kinetic energy in the tropical Indian Ocean derived from lagrangian drifters. *Journal of Marine Research*, 57, 885-907.
3. Saji, P.K.; Shenoi, S.S.C.; Almeida, A.M.; Rao, L.V.G. (2000) Inertial currents in the Indian Ocean derived from satellite tracked surface drifters. *Oceanologica Acta*, Vol.23; 635-640.
4. Saji P. K., A. N. Balchand and M. R. Ramesh Kumar (2013) On some aspects of Indian Ocean warm pool., *Ind. J. of Geo-Marine Sci.*, Vol. 44(4), pp. 475-479.
5. Saji P. K., and A. N. Balchand (2014) Investigation on the warming trends of Indian Ocean Warm Pool., *Proceedings of 28th Kerala Science Congress, Wayanad: 28-31 Jan 2014*, 1781-1787.
6. Saji P. K., A. N. Balchand and R. Sajeev (2014) Seasonal warming trend in Indian Ocean. *Proceedings of National Seminar on Climate Change and Marine Ecosystems (CCME 2014)*, pp. 83-89.
7. Maya L. Pai, P. K. Saji, K. V. Pramod and A. N. Balchand (2015) Trend analysis of Sea Surface Temperature of Indian Ocean during the period 1960-2012. *International J. of Oceans and Oceanography*, Vol. 9(2), pp. 229-242.
8. Nisa Anil, M. R. Ramesh Kumar, R. Sajeev and P. K. Saji (2016) Role of distinct flavours of IOD events on Indian summer monsoon. *Natural Hazards*, DOI 10.1007/s11069-016-2245-9