Dr. Karumuri Ashok, FNASc

Professor

Education

MSc (Meteorology): Andhra University, Visakhapatnam, India 1988
M.Tech. (Atmospheric Sciences) : Andhra University, India, 1991
PhD (Meteorology) : Andhra University, India, 1997

Employment

- Scientist at Indian Institute of Tropical Meteorology, Pune, India from 1994 till Jan. 2000
- Post-Doctoral Researcher at Frontier Research Center for Global Change (FRCGC/JAMSTEC), Japan from Jan 2000 till March 2002
- Researcher at Frontier Research Center for Global Change (FRCGC/JAMSTEC), Japan from Apr. 2002 till Aug., 2007
- Senior Research Scientist and Chief of Climate Operations, APEC Climate Center, Busan, South Korea from Aug., 2007 till Nov. 2009
- Senior Scientist, & Deputy Program Director for the Centre for Climate Change Research, Indian Institute of Tropical Meteorology from Nov. 2009 till July 2014.
- Associate Professor, Centre for Earth, Ocean and Atmospheric Sciences (Formerly UCESS), University of Hyderabad, Hyderabad, India, from Aug. 2014-July 2017
- Professor, Centre for Earth, Ocean and Atmospheric Sciences, University of Hyderabad, Hyderabad, India, from Aug. 2017 till date

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Field of Specialization:

Atmospheric, Ocean, and Climate Sciences

Research Interests:

- Tropical Indo-pacific variability and global impacts
- Monsoon theory, variability & change, and scale interactions
- Seamless prediction
- Earth system modelling
- Past and future climate change modeling
- climate applications
- extreme urban weather prediction

- Climate change policy

Awards/Recognition (include national/international renowned awards/recognition)

1. In January 2021, the office of the Principal Scientific Advisor (PSA) to the Government of India has undertaken responsibility of carrying out the next National Vision Exercise for Mega Science Programme till 2035, initially in six areas of research, including the Climate Research and Ecology & Environment is one of the six areas identified. Prof. Ashok has been nominated to as a member of both the drafting and working groups of the domain of Climate.

2. Has been listed in the Standford University/PLOS list of top 2% research scientists for the years 2019 and 2018 (see Loannidis JPA, Boyack KW, Baas J (2020) Updated science-wide author databases of standardized citation indicators. PLoS Biol 18(10): e3000918. https://doi.org/10.1371/journal.pbio.3000918)

3. *Elected as a Fellow of National Academy of Sciences, Allahabad, India, the oldest of the three prestigious science academies, for the year 2018.*

4. Gave a plenary talk at the AMOS Annual Meeting 2019 and the International Conference on Tropical Meteorology and Oceanography, to be held at Darwin, Australia, during 11-14 June 2019 on "Indian Summer Monsoon, and ENSO". https://amos2019.org.au/ https://amos2019.org.au/plenary-keynote/.

5. Was a member of the WMO commission of climatology's task team on "Global Seasonal Climate Update" during 2012-2014.

6. Was a member of the Indian Government's UNFCCC climate change negotiation efforts during 2010-2014; performance formally commended by Mrs. Jayanthi Natarajan, Minister MoEF.

7. Was a contributing author for the sub-chapter on Indian monsoons in IPCC AR5, and part of the Indian team for the IPCC AR5 meeting (Sweden, 2013). A reviewer for the WG1 report of the next round of IPCC, currently.

8. Was a member of the APEC Climate Center (South Korea) "Climate Analysis Advisory Committee" during January 2010~2014.

Editorial Services

1. On the editorial board of Scientific Reports
2. Associate Editor of Asia-Pacific Atmospheric Sciences
3. Former Associate Editor of the Journal of Earth System Sciences

Selected Publications (maximum 5)

- Tejavath, C. T., K. Ashok, S. Chakraborty, and R. Rengasamy, 2019: A PMIP3 narrative of modulation of ENSO teleconnections to the Indian summer monsoon by background changes in the Last Millennium. Clim. Dyn., 53: 3445-3461. https://doi.org/10.1007/s00382-019-04718-z I.F. 4.486

- Swapna, P., M. K. Roxy, K. Aparna, K. Kulkarni, A. G. Prajeesh, K. Ashok, R. Krishnan, S. Moorthi, A. Kumar, and B. N. Goswami, 2015: The IITM Earth System Model: Transformation of a Seasonal Prediction Model to a Long-Term Climate Model. Bull. Amer. Meteor. Soc., 96, 1351–1367. doi: http://dx.doi.org/10.1175/BAMS-D-13-00276.1 I.F. 9.384

- Ashok, K., T. P. Sabin, P. Swapna, and R. G. Murtugudde (2012), Is a global warming signature emerging in the tropical Pacific?, Geophys. Res. Lett., 39, L02701, doi:10.1029/2011GL050232. I.F. 4.456

- Ashok, K., H. Weng, S. Behera, S. A. Rao, and T. Yamagata, 2007: El Niño Modoki and its teleconnection, J. Geophys. Res., 112, C11007, doi:10.1029/2006JC003798. (More than 1000 citations as per scopus, and more than 1600 citations as per google scholar)

- Ashok, K., Z. Guan and T. Yamagata, 2001: Impact of the Indian Ocean Dipole on the relationship between the Indian Monsoon rainfall and ENSO. Geophys. Res. Lett. 26, 4499-4502. DOI: 10.1029/2001GL013294, I.F. 4.456