



Dr. Mohammad Rahimi

Professor of Climatology

I.R. of Iran candidate for IPCC Working Group I Vice-Chair

I was born in Iran, 1972. I hold a BSc in agricultural science from Tabriz University, an MSc in agro-meteorology from Tehran University and my PhD in climatology from Tarbiat Modares University, Iran. I got a postdoc in climate modeling from FU Berlin, 2012.

I worked at Iranian Meteorological Organization (IRIMO) from 1998 to 2010 in several positions and acted as Secretary of National Secretariat for IPCC in that Organization (as IPCC focal point) from 2003 to 2010. Then I moved to Semnan University, in 2011. I have published many papers, supervised many PhD and MSc students and conducted national and international projects. Now I am a professor of climatology and dean of the faculty of desert studies.

I started my activity in IPCC as an expert reviewer of IPCC fourth assessment report (AR4, 2007) and Special Report on Renewable Energy Sources and Climate Change Mitigation (SRREN, 2010). Then I contributed to IPCC Special Report on Extreme Events (SREX, 2012), Special Report on Climate Change and Land (SRCCL, 2019), and IPCC Sixth Assessment Report, Working Group I, chapter 12 as Asia section lead (AR6, 2021). I mostly focus on Asia especially West Central Asia, East Central Asia, and Arabian Peninsula sub regions climate.

Languages: Farsi (native), English (good), Turkish and Azeri (good), Arabic (beginner)

<https://mrahimi.profile.semnan.ac.ir>

<https://apps.ipcc.ch/outreach/speaker.php?q=2222>

<https://scholar.google.com/citations?hl=en&user=NaGrunMAAAAJ>

Roles in IPCC and other climate related activities

- ✓ Lead Author of Chapter 12(Climate change information for regional impact and for risk assessment) Asia section Lead, Working Group I contribution to the IPCC Sixth Assessment Report (AR6).
- ✓ Contributing Author of Chapter Atlas, Working Group I contribution to the IPCC Sixth Assessment Report (AR6).
- ✓ Scientific expert, IPCC Special Report on Climate change and land, Summary for Teachers, The Office for Climate Education (OCE), 2020.
- ✓ Contributing Author of Chapter 4, Desertification Climate Change and Land: an IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security and greenhouse gas fluxes in terrestrial ecosystems (2020).
- ✓ Lead Author of Chapter 1, Desertification Climate Change and Land: an IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security and greenhouse gas fluxes in terrestrial ecosystems (2020).
- ✓ Lead Author of Chapter 3, Changes in Climate Extremes and their Impacts on the Natural Physical Environment, of the Intergovernmental Panel on Climate Change (IPCC) Special Report on "Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (2012).
- ✓ Expert reviewer of IPCC Special Report on Special report on the impacts of global warming of 1.5°C above pre- Industrial levels and related global greenhouse gas emission pathways (2017).
- ✓ Expert reviewer of IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation (2010).
- ✓ Expert reviewer of IPCC working group II contribution on AR4 (Chapter 10: Asia) (2007).
- ✓ WMO RA II theme leader for climate observation (2009).
- ✓ Member of Expert team on Drought and Extreme Temperatures: Preparedness and management for Sustainable Agriculture, Rangeland, Forestry and Fisheries within OPAG 3,CAgM, WMO, Representing Regional Association II(Asia)(2009).
- ✓ Rapporteur on climate change issues, including the UNFCCC, Working Group on Climate related Matters in Regional Association II (Asia), WMO (2007).
- ✓ Secretary of National Secretariat for IPCC, I.R. of Iran Meteorological Organization (2003-2010), Tehran, Iran.

IPCC outreach activities contributed

- ✓ Climate Science: Can Code Red for Kyrgyzstan be averted? UNDP Kyrgyzstan and the Ministry of Natural Resources, Kyrgyz Republic, 18 March, 2022.
- ✓ UNFCCC COP26 – Glasgow, UK, 1 – 12 November 2021, Side Event, IPCC-WMO Pavilion.
- ✓ IPCC Outreach Event, Ulaanbaatar, Mongolia 16-17 April 2019.
- ✓ IPCC Outreach Event, Almaty, Kazakhstan, 21-22 Aug 2019.
- ✓ IPCC Outreach Event, Tehran, Iran, 18 June 2018.
- ✓ IPCC SREX National Outreach–Lead Pakistan, Islamabad, 27th June, 2012.

IPCC sessions attended

- ✓ 23rd plenary session of IPCC, New Delhi, India, 9-11 November 2004.
- ✓ 26th plenary session of IPCC, Bangkok, Thailand, 30 April - 4 May 2007.
- ✓ 28th plenary session of IPCC, Budapest, Hungary, 9-10 April 2008.
- ✓ IPCC Working Group II Scoping meeting" Possible Special report on" Extreme Events and Disasters; Managing the Risks, Oslo, Norway, 23-26 March 2009.
- ✓ Second Lead Authors Meeting of Special Report on "Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation, Hanoi, Vietnam, 22-26 March 2010.
- ✓ Forth Lead Authors Meeting of Special Report on "Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation, Smithsonian Tropical Research Institute,Gold Coast, Australia, 16 to 19 May 2011.
- ✓ Workshop “Integrating science across the IPCC on climate risk and sustainable solutions: Lessons learnt from AR5 to inform AR6,” co-organized by Future Earth and PROVIA, and co-sponsored by the Intergovernmental Panel on Climate Change (IPCC), Stockholm, Sweden, 29 – 31 August 2016.
- ✓ First Lead Authors Meeting of Special Report on "Desertification Climate Change and Land: an IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security and greenhouse gas fluxes in terrestrial ecosystems ,Oslo, Norway, 16-20 October 2017.
- ✓ IPCC Expert Meeting on assessing Regional Climate Information, which will be hosted by the International Center for Theoretical Physics (ICTP) from 16 to 18 May 2018 in Trieste, Italy.
- ✓ Second Lead Authors Meeting of Special Report on "Desertification Climate Change and Land: an IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security and greenhouse gas fluxes in terrestrial ecosystems, 25-30 March 2018, Christchurch, New Zealand.

- ✓ Third Lead Authors Meeting of Special Report on "Desertification Climate Change and Land: an IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security and greenhouse gas fluxes in terrestrial ecosystems, Dublin, Ireland, ,3-7 Sep 2018.
- ✓ First Lead Authors Meeting of Chapter 12(Climate change information for regional impact and for risk assessment), Working Group I contribution to the IPCC Sixth Assessment Report (AR6)., Guangzhou, China, 25-29 June 2018.
- ✓ Fourth Lead Authors Meeting of Special Report on "Desertification Climate Change and Land: an IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security and greenhouse gas fluxes in terrestrial ecosystems , Cali, Colombia,9-14 Feb 2019.
- ✓ Second Lead Authors Meeting of Chapter 12(Climate change information for regional impact and for risk assessment), Working Group I contribution to the IPCC Sixth Assessment Report (AR6)., Vancouver, Canada, 5-10 Jan 2019.
- ✓ Third Lead Authors Meeting of Chapter 12(Climate change information for regional impact and for risk assessment), Working Group I contribution to the IPCC Sixth Assessment Report (AR6)., Toulouse, France, 26-30 Aug 2019.

IPCC related publications

- ✓ Alex C Ruane, Robert Vautard, Roshanka Ranasinghe, Jana Sillmann, Erika Coppola, Nigel Arnell, Faye Abigail Cruz, Suraje Dessai, Carley E Iles, AKM Saiful Islam, Richard G Jones, Mohammad Rahimi, Daniel Ruiz Carrascal, Sonia I Seneviratne, Jérôme Servonnat, Anna A Sörensson, Mouhamadou Bamba Sylla, Claudia Tebaldi, Wen Wang, Rashyd Zaaboul,(2022),The Climatic Impact, Driver Framework for assessment of risk relevant climate information, Earth's Future, 10 (11). 10.1029/2022EF002803.
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2022EF002803>
- ✓ Connors, S., Dionne, M., Hanak, G., Musulin, R., Aellen, N., Amjad, M., Bowen, S., Carrascal, D. R., Coppola, E., Moro, E. D., Dosio, A., Faria, S. H., Gan, T. Y., Gomis, M., Gutierrez, J. M., Hope, P., Kopp, R., Krakovska, S., Leitzell, K., Maraun, D. , Masson-Delmotte, V., Matthews, R., Maycock, T., Paddam, S., Plattner, G.-K., Pui, A., Rahimi, M., Ranasinghe, R., Rogelj, J., Ruane, A. C., Szopa, S., Turner, A. , Vautard, R., Velichkova, Y., Weigel, A. and Zhang, X. , (2022) *Climate Science: A Summary for Actuaries - What the IPCC Climate Change Report 2021 Means for the Actuarial Profession*. Technical Report. International Actuarial Association, Ottawa, Canada. pp61.
https://www.actuaries.org/IAA/Documents/Publications/Papers/Climate_Science_Summary_Actuaries.pdf

✓ IPCC, 2021: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T. Waterfield, O. Yelekçi, R. Yu and B. Zhou (eds.)]. Cambridge University Press. In Press.

https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Full_Report.pdf

✓ Ranasinghe, R., A. C. Ruane, R. Vautard, N. Arnell, E. Coppola, F. A. Cruz, S. Dessai, A. S. Islam, M. Rahimi, D. Ruiz Carrascal, J. Sillmann, M. B. Sylla, C. Tebaldi, W. Wang, R. Zaaboul, 2021, Climate Change Information for Regional Impact and for Risk Assessment. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T. Waterfield, O. Yelekçi, R. Yu and B. Zhou (eds.)]. Cambridge University Press. In Press.https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Chapter_12.pdf

✓ Gutiérrez, J. M., R. G. Jones, G. T. Narisma, L. M. Alves, M. Amjad, I. V. Gorodetskaya, M. Grose, N. A. B. Klutse, S. Krakovska, J. Li, D. Martínez-Castro, L. O. Mearns, S. H. Mernild, T. Ngo-Duc, B. van den Hurk, J-H. Yoon, 2021, Atlas. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T. Waterfield, O. Yelekçi, R. Yu and B. Zhou (eds.)]. Cambridge University Press. In Press.

https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Atlas.pdf

✓ Olsson, L., H. Barbosa, S. Bhadwal, A. Cowie, K. Delusca, D. Flores-Renteria, K. Hermans, E. Jobbagy, W. Kurz, D. Li, D.J. Sonwa, L. Stringer, 2019: Land Degradation. In: Climate Change and Land: an IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems Coordinating Lead Authors: Lennart Olsson (Sweden), Humberto Barbosa (Brazil)Lead Authors: Suruchi Bhadwal (India), Annette Cowie (Australia), Kenel Delusca (Haiti), Dulce Flores-Renteria (Mexico), Kathleen Hermans (Germany), Esteban Jobbagy (Argentina), Werner Kurz (Canada), Diqiang Li (China), Denis Jean Sonwa (Cameroon), Lindsay Stringer (United Kingdom)Contributing Authors: Timothy Crews (The United States of America), Martin Dallimer (United Kingdom), Joris Eekhout (The Netherlands), Karlheinz Erb (Italy), Eamon Haughey (Ireland), Richard Houghton (The United States of

America), Muhammad Mohsin Iqbal (Pakistan), Francis X. Johnson (The United States of America), Woo-Kyun Lee (The Republic of Korea), John Morton (United Kingdom), Felipe Garcia Oliva (Mexico), Jan Petzold (Germany), Mohammad Rahimi (Iran), Florence Renou-Wilson (Ireland), Anna Tengberg (Sweden), Louis Verchot (Colombia/The United States of America), Katharine Vincent (South Africa).

https://www.researchgate.net/publication/338066790_SRCCL_Chapter_4_Land_Degradation

<https://www.ipcc.ch/srccl/chapter/chapter-4/>

✓ P.R. Shukla, J. Skea, R. Slade, R. van Diemen, E. Haughey, J. Malley, M. Pathak, J. Portugal Pereira (eds.) Technical Summary, 2019. In: Climate Change and Land: an IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems, PR Shukla, J Skea, R Slade, R van Diemen, E Haughey, J Malley, M Pathak, J Portugal Pereira, F Agus, A Arneeth, PE Artaxo Netto, H Barbosa, LG Barioni, T Benton, S Bhadwal, K Calvin, E Calvo, D Campbell, F Cherubini, S Connors, A Cowie, E Davin, K Delusca, F Denton, A Elbehri, K Erb, J Evans, D Flores-Renteria, F Garcia-Oliva, G Grassi, K Hermans, M Herrero, R Houghton, J House, M Howden, M Hurlbert, IAG Hussein, MM Iqbal, G Jia, E Jobbagy, FX Johnson, J Kimutai, K Kitajima, T Knowles, V Korotkov, MV Krishnapillai, J Krishnaswamy, W Kurz, A Le Hoang, C Lennard, D Li, E Liwenga, S Lwasa, N Mahmoud, V Masson-Delmotte, C Mbow, P McElwee, CF Mena, F Meza, A Mirzabaev, J Morton, W Moufouma, S Myeong, D Nedjraoui, J Nkem, E Nkonya, De Noblet-Ducoudre, L Olsson, B Osman-Elasha, J Petzold, R Pichs-Madruga, E Poloczanska, A Popp, HO Pörtner, P Pradhan, M Rahimi, A Reisinger, MG Rivera-Ferre, DC Roberts, C Rosenzweig, M Rounsevell, N Saigusa, T Sapkota, E Shevliakova, A Sirin, P Smith, Y Sokona, DJ Sonwa, JF Sousasana, A Spence, L Stringer, R Sukumar, MA Taboada, F Tena, F Tubiello, M Türkes, R Valentini, RJ Vazquez Montenegro, LV Verchot, D Viner, K Warner, M Weltz, NM Weyer, A Wreford, J Wu, N Yassa, S Zakieldeen, P Zhai, Z Zommers, In press.

<https://www.ipcc.ch/srccl/chapter/technical-summary/>

✓ Arneeth, A., F. Denton, F. Agus, A. Elbehri, K. Erb, B. Osman Elasha, M. Rahimi, M. Rounsevell, A. Spence, R. Valentini, 2019: Framing and Context. In: Climate Change and Land: an IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems [P.R. Shukla, J. Skea, E. Calvo Buendia, V. Masson-Delmotte, H.-O. Pörtner, D.C. Roberts, P. Zhai, R. Slade, S. Connors, R. van Diemen, M. Ferrat, E. Haughey, S. Luz, S. Neogi, M. Pathak, J. Petzold, J. Portugal Pereira, P. Vyas, E. Huntley, K. Kissick, M. Belkacemi, J. Malley, (eds.)]. In press.

<https://www.ipcc.ch/srccl/chapter/chapter-1/>

✓ Seneviratne, S.I., N. Nicholls, D. Easterling, C.M. Goodess, S. Kanae, J. Kossin, Y. Luo, J. Marengo, K. McInnes, M. Rahimi, M. Reichstein, A. Sorteberg, C. Vera, and X. Zhang, 2012: Changes in climate extremes and their impacts on the natural physical environment. In: Intergovernmental Panel on Climate Change Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation [Field, C. B., Barros, V., Stocker, T.F., Qin, D., Dokken, D., Ebi, K.L., Mastrandrea, M. D., Mach, K. J., Plattner, G.-K., Allen, S. K., Tignor, M. and P. M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

https://archive.ipcc.ch/pdf/special-reports/srex/SREX-Chap3_FINAL.pdf

✓ Alex C. Ruane¹, Robert Vautard, Roshanka Ranasinghe, Jana Sillmann, Erika Coppola, Nigel Arnell, Faye Abigail Cruz, Suraje Dessai, Carley E. Iles, A.K.M. Saiful Islam, Richard G. Jones, Mohammad Rahimi, Daniel Ruiz Carrascal, Sonia I. Seneviratne, Jérôme Servonnat, Anna A. Sörensson, Mouhamadou Bamba Sylla, Claudia Tebaldi, Wen Wang, Rashyd Zaaboul, The Climatic Impact-Driver Framework for assessment of risk-relevant climate information, 2022, Earth's Future.

<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2022EF002803>

✓ Borges Pablo, Rafaela Flach, Cicilia Githaiga, Mohammad Rahimi, 2019, Towards a more integrated role for early career researchers in the IPCC process, 159(1):75-85.

<https://link.springer.com/article/10.1007/s10584-019-02604-5>