





NATIONAL CENTERS FOR ENVIRONMENTAL PREDICTION

ENVIRONMENTAL MODELING CENTER

External Review

June 6-8, 2023

EMC Extramural Service

2019-2023

This document collects service performed by EMC Federal employees in addition to regular work duties since 2019

Extramural service is reported under the following categories:

- 1. Service in Technical and Scientific Societies
- 2. Service for Scientific Journals, Reports, and Publications
- 3. U.S. National Service
- 4. International Service
- 5. Additional Service (for all other service)

Service in Technical and Scientific Organizations

Name	Service	Organization	Dates
Jeff Ator	Co-chair	Interagency Council for Advancing Meteorological Services (ICAMS), Interagency Meteorological Coordination Office (IMCO), Working Group on Observational Data (WG-OD)	2019-2023
	Co-organizer, Co-chair	1st NOAA Workshop on leveraging AI in the exploitations of satellite Earth observation and Numerical Weather Prediction	2019
	Collaborator	NOAA/NESDIS - Using AI for data assimilation & post-processing	2018-2022
	Member	Environmental Data Management Committee (EDMC)	2019
	Member	NOAA AI Working Group	2019-2021
Vladimir Krasnopolsky	Lead	NOAA-Korean Meteorological Agency Collaboration, Al applications	2019
	Member	NOAA AI Strategic Plan Writing Team	2019-2020
	Member	NOAA AI Executive Committee	2019-2020
	Session Chair	AMS Annual Meeting	2020
	Member	Working Group - ML for Radiative Transfer	2020-2021
	Lead	NOAA-Google OTA Group, ML postprocessing team	2020-2023
Jessica Meixner	Member	World Meteorological Organization, Expert Team on Coastal and Emergency Response (ET-CER)	2021
Alicia Bentley	Science Lead	National Centers for Environmental Prediction (NCEP), Strategic Implementation Planning Committee	2021-2022
Jacob Carley	Technical Evaluator	Weather and Climate Operational Supercomputing System, Source Selection Team	2019-2020
Jason Levit	Member	American Meteorological Society	2019-2023
Neil Barton	Member	Interagency Council for Advancing Meteorological Services (ICAMS), Content Standards Implementation Team Working Group	2022-present

	Member	Interagency Council for Advancing Meteorological Services (ICAMS), Coupled Global Meeting Committee	2022-present
	Member	American Meteorological Society	2023
	Co-chair	Developmental Testbed Center, Science Advisory Board	2022-2023
Hui-Ya	Member	Developmental Testbed Center, Science Advisory Board	2020-2026
Chuang	Representative	System Architecture and Infrastructure Cross Cutting Team, Post Processing	2023
	Member	9th NOAA Ensemble Users Workshop Committee	2023
	Co-chair	Interagency Council for Advancing Meteorological Services (ICAMS), Coupled Global Modeling Implementation Team	2021-2023
Avichal Mehra	Member	Unified Forecast System, Steering Committee	2020-2023
Menra	Co-Lead	Unified Forecast System, MRW/S2S Application Team	2021-2023
	Member, Co-Lead	Unified Forecast System, Hurricane Application Team	2019-2023
Daryl Kleist	Member	ICAMS Committee on Research and Innovations, Subcommittee on Data Assimilation and Observations	2022-2023
Vijay Tallapragada	Co-chair	Interagency Council on Advancing Meteorological Services (ICAMS), Earth System Modeling & Prediction (ESMP) subcommittee	2021-present
	Co-Lead	Unified Forecast System (UFS), Research to Operations (R2O) Project	2019-present
	Member	Developmental Testbed Center (DTC), Scientific Advisory Board (SAB)	2017-2020
	Co-chair	Atmospheric Rivers Reconnaissance Project, Modeling and Data Assimilation Steering Committee	2016-present
	Development Manager	Hurricane Forecast Improvement Project	2016-present

	Co-PI	NASA's Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Snowstorms (IMPACTS)	2020-present
	Co-PI	Atmospheric River Reconnaissance	2016-present
Raffaele Montuoro	Co-chair	Interagency Council for Advancing Meteorological Services (ICAMS), Contents Standards Implementation Team Working Group	2022-present
L. Gwen Chen	Member	American Society of Civil Engineers (ASCE), Environmental & Water Resources Institute (EWRI), Risk, Uncertainty, and Probabilistic Approaches Committee	2007-present

Service for Scientific Journals, Reports, and Publications

Name	Service	Publication	Dates
Cory Martin	Editorial Board Member	Experimental Results	2020-2023
	Reviewer	Atmospheric Environment	2021-2022
	Reviewer	International Journal of Environmental Research and Public Health	2021-2022
	Reviewer	Journal of Hydrometeorology	2023
L. Gwen Chen	Reviewer	Weather, Climate, and Society (a journal of the American Meteorological Society)	2023
	Reviewer	Monthly Weather Review	2018-2023
Alicia Bentley	Reviewer	Weather and Forecasting	2020-2023
	Reviewer	Geophysical Research Letters	2016-2023
	Associate Editor	Journal of Weather and Forecasting	2014-2023
Jacob Carley	Reviewing Editor	Experimental Results	2019-2023
Jacob Carley	Reviewer	The Bulletin of the American Meteorological Society	2016-2023
	Reviewer	Monthly Weather Review	2018-2023
	Chapter Coordinator, Co-author	WMO/IOC's Guide on Operational Ocean and Marine Forecast Systems	2020-2022
	Special Editor	Frontiers in Marine Science	2022-2023
Avichal Mehra	Guest Editor	Atmosphere	2020
	Reviewer	Journal of Climate	2021-2022
	Reviewer	Journal of Geophysical Research – Atmosphere	2020
	Reviewer	International Journal of Numerical Methods in Fluids	2019
	Associate Editor	Weather and Forecasting	2018-2023
Daryl Kleist	Associate Editor	Monthly Weather Review	2013-2021
	Editor	Monthly Weather Review	2021-2023
	Reviewer	AMS (MWR, WAF, BAMS), QRJRM, JAMES, AGU (JGR, GRL), Japan JMSJ	2012-2023
	Co-chair	National Science Foundation, Site Visit Team of NCAR, Modeling and Data	2021

		Assimilation	
Robert Grumbine	Reviewer	AMS journals, including BAMS and J. Tech	2019-present
	Editor	Mausam, Indian Meteorological Society	2023
	Guest Editor	MDPI's Atmosphere Special Issue, 2020 on "Modeling and Data Assimilation for Tropical Cyclone Forecasts"	2020
	Editor	Frontiers in Climate, Editorial Board of Predictions and Projections	2020-present
Vijay Tallapragada	Reviewer	AMS Journals (BAMS, MWR, WAF, JAS), AGU Journals (JGR, GRL, Review of Geophysics), Springer Journals, Elsevier Journals, MDPI Journals, Wiley' Journals (QJRMS, Met Applications, Weather), Japan's JMSJ	2010-present
	Associate Editor	Weather and Forecasting	2017-2023
Fanglin Yang	Reviewer	Manuscripts for more than 15 scientific journals; proposals for various funding agencies	2000-present
	Section Editor	Encyclopedia of Atmospheric Sciences, Third Edition	2022-2023

U.S. National Service

Name	Service	Organization	Dates
	Member	Unified Forecast System (UFS), Air Quality Application Team	2021-2023
Cory Martin	Member	Unified Forecast System (UFS), Aerosols and Atmospheric Composition Component Working Group Team	2021-2023
	Member	Unified Forecast System (UFS), Data Assimilation, Reanalysis, and Reforecast Component Working Group Team	2021-2023
Jessica Meixner	Member	Unified Forecast System (UFS), Steering Committee	2022
	Member	American Meteorological Society (AMS), Weather Analysis and Forecasting (WAF) Committee	2018-2024
Aliaia Dantlau	Program Chair	American Meteorological Society (AMS), 32nd Conference on Weather Analysis and Forecasting/28th Conference on Numerical Weather Prediction	2022-2023
Alicia Bentley	Program Chair	American Meteorological Society (AMS), Daniel Keyser Symposium: A Celebration of Synoptic–Dynamic Meteorology, Past, Present, and Future	2022-2024
	Session Chair	101st American Meteorological Society (AMS) Annual Meeting	2021
	Co-Chair	Unified Forecast System Short Range Weather Application Team	2018-2023
	Session Co-Chair	100th American Meteorological Society Annual Meeting	2020
Jacob Carley	Panel Member	8th NCEP Ensemble User Workshop - Panel discussion on model development (UFS, retirement of SREF)	2019
	Stakeholder Representative	National Severe Storms Laboratory Review	2021
	Member	Unified Forecast System Steering Committee	2019-2023
Jason Levit	Member	Unified Forecast System Verification and Validation Working Group	2019-2023

	Co-Chair	Unified Forecast System Post-Processing Working Group	2019-2023
Neil Barton	Proposal Reviewer	Department of Energy (DOE), BER, Science Focus Area, Energy Exascale Earth System Model (E3SM)	2022
	Member	Department of Energy (DOE), CICE Consortium Sponsors	2022
Hui-Ya Chuang	Member	Unified Forecast System (UFS), Post Processing Team	2017
	Member	Unified Forecast System (UFS) Steering Committee	2021-2023
	Co-Chair	Unified Forecast System (UFS), MRW-S2S Application Team	2021-2023
Avichal	Member, Co-Chair	Unified Forecast System (UFS), Hurricane Application Team	2019-2021
Mehra	Session Chair	American Meteorological Society, 2023 Annual Meeting	2022-2023
	Session Chair	AMS, 34th Conference on Hurricanes and Tropical Meteorology	2022
	Member	First Operational Satellite Oceanography Symposium, Program Committee	2019
	Co-Chair	UFS Data Assimilation and Ensembles Working Group	2018-2023
Daryl Kleist	Executive Team & Associate Director	Joint Center for Satellite Data Assimilation	2018-2023
	Session Chair	AMS Annual Meeting	2021
Robert	Member	NOAA Cross-Line Office, Sea Ice Group Committee	2020-2023
Grumbine	Team member	CICE Consortium	2016-2023
	Co-Chair, Co-Host	Annual NOAA-CWB Taiwan West Pacific Global Forecast System Development Workshop in Taipei, Taiwan	2017-present
Vijay Tallapragada	Organizer, Co-Chair	Conference on the Transition of Research to Operations, AMS Annual Meeting	2019-present
	Contributor	AMS Education Program K-12 Teachers and Project Atmosphere	2019-2020
	Co-Chair and Convener	2022 NOAA-KMA Workshop on Artificial Intelligence (AI) for NWP Applications	2022

	Co-Chair	Unified Forecast System (UFS), MRW-S2S Application Team	2019-2020
	Co-Chair	Unified Forecast System (UFS), Physics and Dynamics Cross-Cutting Team	2011-2023
Fanglin Yang	Session Chairs	American Meteorological Society, Annual Meeting and WAF/NWP etc	2020-2023
	Member	NOAA AI Executive Committee (NAIEC) member	2022-2023
	Member	Interagency Council for Advancing Meteorological Services (ICAMS) PI Implementation Team	2020-2023
Arun Chawla	Member	Unified Forecast System (UFS) Steering Committee	2018- 2023
	Co-chair	UFS Model Infrastructure Team	2019 - 2023
	Co-chair	Software Architecture Working Group	2020-2023

International Service

Name	Service	Organization	Dates
	Member	World Meteorological Organization (WMO), Task Team on Table-Driven Code Forms (TT-TDCF)	2019-2023
Jeff Ator	NCEP Representative	World Meteorological Organization (WMO), Task Team on the WIGOS Data Quality Monitoring System (TT-WDQMS)	2019-2023
	NCEP Representative	International Working Group on Global Data Exchange for Numerical Weather Prediction (GODEX-NWP)	2019-2023
Jessica Meixner	Member	Waves and Sea State in the Earth System (WISE) Annual Conference, Organizing Committee	2022
	NOA/NWS representative	WMO/IOC's Expert Team on Operational Ocean Forecast Systems	2018-2023
	NOA/NWS representative	IOC/GOOS Ocean Predict Science Steering Team	2018-2023
	Member	IOC/GOOS Ocean Predict Coupled Modeling Task Team	2021-2023
Avichal Mehra	Chapter coordinator, Contributing author	WMO/IOC Guide on Operational Ocean and Marine Forecast Systems	2019-2022
	Expert Evaluator	European Commission Proposals	2019
	Proposal reviewer	European Union, Copernicus Marine Environment Monitoring Service (CMEMS)	2019
	NWS/NCEP representative	Typhoon Committee Technical Team	2017-2023
	Co-Chair	Data Assimilation and Observing Systems Working group (WMO World Weather Research Programme)	2017-2021
Daryl Kleist	Member	WMO World Weather Research Programme, Scientific Steering Committee	2022-2025
	Organizer, Co-Chair	Joint WWRP-WCRP Symposium on Data Assimilation and Reanalysis	2021

	Liaison, Data Assimilation	Taiwan Central Weather Bureau Modeling and Assimilation Collaboration	2017-2023
	Organizer, Co-Chair	4th Taiwan West Pacific Global Forecasting System Workshop	2021
Robert Grumbine	Member	WMO Polar Prediction Project, Steering Group	2016-2022
	Member	WMO Working Group for Numerical Experimentation (WGNE)	2018-2023
Fanglin Yang	Member	WWRP Aviation Research and Development Project – avRDP Scientific Steering Committee	2022-2023
	Liaison, Model Physics	Taiwan Central Weather Bureau Modeling and Assimilation Collaboration	2018-2023
	Core Member	World Meteorological Organization, Infrastructure Commission, Standing Committee on Data Processing for Applied Earth System Modelling and Prediction & Projection (SC-ESMP)	2020-present
	Member	Government of India, Panel on Vaishwik Bharatiya Vaigyanik Summit (VAIBHAV)	2020-2021
	Member	Korean Institute for Atmospheric Prediction System (KIAPS), Scientific Advisory Committee (SAC)	2018-present
Vijay Tallapragada	Member	Shanghai Innovative Center of High-Resolution Regional Numerical Weather Prediction, International Advisory Committee (IAC)	2015-present
	Member	China Meteorological Administration, Key Laboratory of Numerical Modeling for Tropical Cyclones, Scientific Steering Committee (SSC)	2013-present
	Member	China Meteorological Administration (CMA), Earth Prediction and Modeling and Prediction Center (CEMC), Scientific Steering Committee	2022-2025
	Advisor	Central Weather Bureau	2017-present

Additional Service

Service not reported under the previous categories

Name	Service	Organization/Project Description	Dates
	Invited speaker	University of Maryland Dept. of Atmospheric and Oceanic Science	2023
Cory Martin	Member	University of Maryland Atmospheric and Oceanic Science Alumni Committee	2021-present
	Founding member	Vice-president/president-elect The Ohio State University Atmospheric Sciences Alumni Society	2022-present
	Mentorship	Participated as mentor for multiple interns	2022-present
Alicia Bentley	Mentorship	National Weather Service (NWS) Mentoring Program	2023
Jacob Carloy	Member	University of Maryland Doctoral Committee	2020-2021
Jacob Carley	Co-Advisor	University of Maryland Doctoral Committee	2016-2022
Jason Levit	Member	METplus Governance Board	2020-present
Jason Levit	Member	AWIPS Data Management and Activation Committee	2022-present
Neil Barton	Lecturer	American Meteorological Society (AMS) – Project Atmosphere Professional development course for K-12 teachers	2022
	Member	Steering Committee Joint Hurricane Testbed	2021-present
Avichal Mehra	Member	Tropical Pacific Observing System (TPOS)-2020 Working Group on Planetary Boundary layers	2018-present
Wichia	Member	ICAMS's Working Group on Tropical Cyclone Operations and Research	2017-present
Robert Grumbine	Volunteer	NOAA Ambassador	2023
Vijay Tallapragada	Advisor and adjudicator for Masters and Ph.D. students	Howard University, Washington DC, University of Maryland, Baltimore County, National Institute of Technology, Rourkela, India, Purdue University, Indian Institute of Technology, Kharagpur, India, Bangladesh Institute of Technology (BIT), Khulna, Bangladesh	2010-2022
Daryl Kleist	Adjunct Assistant Professor	University of Maryland-College Park, Department of Atmospheric and Oceanic Science	2017-2023

	PhD Advisor	University of Maryland-College Park, Department of Atmospheric and Oceanic Science (D. Lippi, Graduated Spring 2023)	2016-2023
Fanglin Yang	Thesis Committee	University of Illinois at Urbana-Champaign Department of Atmospheric Sciences	2019-2023