

Category 0 General area of expertise	Category 1 Geographic location/entity	2 Circulation/ Dynamics	3 Atm/Ocean Structure/ Phenomena	4 Physical Meteorology and Climatology	5 Observational techniques and algorithms	6 Mathematical and statistical techniques	7 Forecasting	8 Models and modeling	9 Variability	10 Applications/Miscellaneous	11 AMS Administration	12 Atmospheric Chemistry and Aerosols	13 Artificial intelligence and machine learning
Atmosphere	Africa	Abyssal circulation	Abyssal circulation	Absorption	Acoustic measurements/effects	Bayesian methods	Automatic weather stations	Adaptive models	Annual variations	Administration		Aerosol hygroscopicity	Artificial intelligence
Ocean	Amazon region	Advection	Anticyclones	Advection	Aircraft observations	Bias		Airshed modeling	Anomalies	Associate Editor-WCAS		Aerosol indirect effect	Automated systems
Social science	Antarctica	Ageostrophic circulations	Atmosphere-ocean interaction	Aerosols	Algorithms	Changepoint analysis	Climate prediction	Anelastic models	Arctic Oscillation	Associate Editor-WAF		Aerosol nucleation	Bayesian methods
	Arctic	Airflow	Bottom currents/bottom water	Air quality	Altimetry	Classification	Ensembles	Baroclinic models	Biennial oscillation	Associate Editor-MWR		Aerosol optical properties	Classification
	Asia	Annular mode	Boundary currents	Air-sea interaction	Automatic weather stations	Differential equations	Forecast verification/skill	Behavioral models	Climate attribution	Associate Editor-JTECH4		Aerosol radiative effect	Clustering
	Atlantic Ocean	Antarctic Oscillation	Boundary layer	Albedo	Autonomous observations	Downscaling	Forecasting	Boundary conditions	Climate variability	Associate Editor-JTECHO		Aerosol-cloud interaction	Data science
	Australia	Anticyclones	Cloud cover	Angular momentum	Buoy observations	Empirical orthogonal functions	Forecasting techniques	Climate models	Decadal variability	Associate Editor-JPO		Aerosols/particulates	Decision trees
	Central America	Arctic Oscillation	Clouds	Antarctic Oscillation	Climate classification/regimes	Error analysis	Hindcasts	Cloud parameterizations	Anthropogenic effects/forcing	Associate Editor-JHM		Air pollution	Deep learning
	Complex terrain	Atmosphere-ocean interaction	Cold fronts	Atmosphere-land interaction	Cloud retrieval	Fourier analysis	Nowcasting	Clouds	Interdecadal variability	Associate Editor-JAS		Air quality and climate	Expert systems
	Continental shelf/slope	Atmospheric circulation	Cold pools	Atmosphere-ocean interaction	Cloud tracking/cloud motion winds	Interpolation schemes	Numerical weather prediction/forecasting	Convective parameterization	Internal variability	Associate Editor-JAMC		Air quality and health	Genetic algorithms/programming
	Estuaries	Baroclinic flows	Contraits	Atmospheric chemistry	Data mining	Inverse methods	Operational forecasting	Coordinate systems	Intraseasonal variability	Associate Editor-EI		Air quality forecasts	Machine learning
	Europe	Barotropic flows	Convection lines	Atmospheric electricity	Data processing/distribution	Isentropic analysis	Probability forecasts/models/distribution	Coupled models	Kelvin-Helmholtz instabilities	Associate Editor-BAMS		Air quality trends	Model interpretation and visualization
	Extratropics	Biennial oscillation	Convective clouds	Biosphere-atmosphere interaction	Data quality control	Kalman filters	Probabilistic Quantitative Precipitation Forecasting (PQPF)	Cumulus clouds	Microscale processes/variability	Editorial		Air-sea interaction	Neural networks
	Forest canopy	Blocking	Cumulus clouds	Boreal meteorology	Databases	Lypunov vectors	Seasonal forecasting	Data assimilation	Multidecadal variability			Airshed modeling	Pattern recognition
	Glaciers	Bottom currents/bottom water	Cutoff lows	Budgets	Diagnosics	Neural networks	Short-range prediction	Diagnosis	North Atlantic Oscillation			Antifouling	Regression
	Ice sheets	Boundary currents	Cyclogenesis/cyclolysis	Buoyancy	Drogonides	Nonlinearity	Statistical forecasting	Dynamical system model	North Pacific Oscillation			Aqueous-phase chemistry	Support vector machines
	Ice shelves	Buoyancy	Density currents	CAPE	Geographic information systems (GIS)	Nonstationarity		Ecological models	Oceanic variability			Atmospheric chemistry	Other artificial intelligence/machine learning
	Indian Ocean	Channel flows	Derecho	Carbon dioxide	Global positioning systems (GPS)	Numerical analysis/modeling		Ensembles	Oscillations			Atmospheric composition	
	Intertropical convergence zone	Cloud cover	Diabatic heating	Atmospheric chemistry	In situ atmospheric observations	Optimization		General circulation models	Pacific decadal oscillation	Community		Atmospheric oxidation	
	Land surface	Cloud forcing	Diapycnal mixing	Oceanic chemistry	Infrasound	Pattern detection		Global transport modeling	Perturbations	COVID-19		Biomass burning	
	Maritime Continent	Cloud tracking/cloud motion winds	Diurnal effects	Cirrus clouds	In situ oceanic observations	Principal components analysis		Grid systems	Quasibiennial oscillation	Crime		Biosphere emissions	
	Mediterranean Sea	Clouds	Downbursts	Climate attribution	Instrumentation/sensors	Predictability		Hazardous release modeling	Seasonal cycle	Crop growth		Biosphere-atmosphere interactions	
	North America	Coastal flows	Drainage flow	Climate change	Isotopic analysis	Quality assurance/control		Hydrologic models	Seasonal variability	Damage assessment		Collisions	
	North Atlantic Ocean	Cold air surges	Drizzle	Climate classification/regimes	Kinematics	Ranking methods		Idealized models	Solar cycle	Decision making		Energy emissions	
	North Pacific Ocean	Cold fronts	Drought	Climate dipoles	Lidars/Lidar observations	Regression analysis		Interpolation schemes	Southern Oscillation	Decision support		Gas-to-particle conversion	
	Northern Hemisphere	Cold pools	Drylines	Climate prediction	Microwave observations	Risk assessment		Isopycnal coordinates	Spring season	Deforestation		Global biogeochemical cycles	
	Pacific Ocean	Conditional instability	Dust or dust storms	Climate sensitivity	Occultation	Singular vectors		Laboratory/physical models	Subseasonal variability	Desert meteorology		Global transport modeling	
	Rivers	Conservation equations	Eddies	Climate variability	Atmospheric profilers	Spectral analysis/models/distribution		Land surface model	Trends	Disease		Halogen chemistry	
	Sea ice	Continental forcing	Ekman pumping	Climatology	Oceanic profilers	Statistical techniques		Large eddy simulations	Tropical variability	Dust or dust storms		Heterogeneous chemistry	
	Seas/gulfs/bays	Continuity equation	El Nino	Cloud cover	Cloud cover	Statistics		Localization		Ecological models		Ionospheric chemistry	
	Sea/ocean surface	Energy transport	ENSO	Cloud droplets	Quality assurance/control	Supensembles		Microscale models		Economic value		Marine chemistry	
	South America	Convection lines	ENSO	Cloud forcing	Radars/Radar observations	Time series		Model comparison		Ecosystem effects		Measurements	
	South Asia	Convective adjustment	Extratropical cyclones	Cloud fraction	Radiosonde/rawinsonde observations	Variational analysis		Model errors		Education		Ozone	
	South Atlantic convergence zone	Convective clouds	Extreme events	Cloud microphysics	Remote sensing	Uncertainty		Model evaluation/performance		Emergency preparedness		Primary aerosol	
	South Atlantic Ocean	Convective storms/systems	Flood events	Cloud radiative effects	Sampling			Model initialization		Emergency response			
	South Pacific Ocean	Convective-scale processes	Fog	Cloud retrieval	Satellite observations			Model output statistics		Environmental effects		Secondary inorganic aerosol	
	Southern Hemisphere	Convergence/divergence	Forest fires	Cloud water/phase	Scatterometer			Multigrid models		Experimental design		Secondary organic aerosol	
	Southern Ocean	Cool season	Freeze events	Clouds	Sensitivity studies			Neural networks		Field experiments			
	Subtropics	Currents	Freshwater	Coastal meteorology	Ship observations			Nonhydrostatic models		Flood events		Toxic gases	
	Tropics	Cutoff lows	Frontogenesis/frontolysis	Cold air surges	Soundings			Nonlinearity		Forest fires		Trace gas fluxes	
	Watersheds	Cyclogenesis/cyclolysis	Fronts	Cold pools	Subsurface observations			Nonlinear models		Geoengeering		Tropospheric chemistry	
	Volcanoes	Deep convection	Greenhouse gases	Condensation	Surface observations			Numerical analysis/modeling		Geographic information systems (GIS)		Urban air quality	
	Inland seas/lakes	Density currents	Gust fronts	Conservation equations	Tracers			Numerical weather prediction/forecasting		Health impacts		Wildfires	
	Tibetan Plateau	Diapycnal mixing	Gyres	Conservation of mass	Tree rings			Ocean models		Heat islands			
	South Pacific convergence zone	Diffusion	Hail	Continental forcing	Weather radar signal processing			Optimization		History			
	Trench	Dispersion	Heat islands	Convective storms	Wind profilers			Parameterization		Ioing			
	Water resources	Downslope winds	Hurricanes/typhoons	Convective-scale processes	Uncrewed observations			Postprocessing		Indigenous knowledge			
		Drainage flow	Hydrometeors	Cumulus clouds	Unpiloted aerial systems			Predictability		Information theory			
		Dry intrusions	Ice age	Diabatic heating				Primitive equations model		Insurance			
		Dynamics	Intermediate waters	Diffusion				Quasigeostrophic models		Intensification			
		Eddies	Inversions	Dispersion				Reanalysis data		Lake effects			
		Ekman pumping/transport	Ionospheric	Drop size distribution				Regional models		Land use			
		El Nino	Ionosphere	Ecosystem effects				Risk modeling		Local effects			
		Energy transport	Jets	El Nino				Semi-Lagrangian models		Mitigation			
		ENSO	Katabatic winds	Energy budget/balance				Single column models		Morphology			
		Entrainment	Landfall	ENSO				Spectral analysis/models/distribution		Mountain meteorology			
		Extratropical cyclones	La Nina	Entropy				Stochastic models		Orographic effects			
		Feedback	Lightning	Environmental effects				Subgrid-scale processes		Pandemic			
		Fluxes	Madden-Julian oscillation	Evaporation				Tracers		Planning			
		Forcing	Mammatus clouds	Evapotranspiration				Variational data assimilation		Policy			
		Frontogenesis/frontolysis	Marine boundary layer	Feedback				Vertical coordinates		Pollution			
		Fronts	Mei-yu fronts	Fluxes						Regional effects			
		Gravity waves	Mesocyclones	Forcing						Renewable energy			
		Gust fronts	Microbursts	Freezing precipitation						Resilience			
		Hadley circulation	processes/variability	Friction						Risk assessment			
		Hurricanes/typhoons	Middle atmosphere	Gaseous absorption						Seasonal effects			
		Hydrologic cycle	Mixed layer	Glaciation						Societal impacts			
		Indices	Mixed phase cloud	Greenhouse gases						Software			
		Inertia-gravity waves	Mixing	Hail						Space weather			
		Instability	Monsoons	Heat budgets/fluxes						Subseasonal effects			
		Internal waves	Morphology	Heat content						Transportation			
			North Atlantic Oscillation	Heating						Urban meteorology			
		Kelvin waves	North Pacific Oscillation	Humidity						Vegetation-atmosphere interactions			
		Kelvin-Helmholtz instabilities	Oceanic mixed layer	Hurricanes/typhoons						Vulnerability			
		La Nina	Optical phenomena	Hydrologic cycle						Virus			
		Lagrangian circulation/transport	Oscillations	Hydrology						Water resources			
		Lage effects	Pacific decadal oscillation	Hydrometeorology						Weather modification			
			Pacific-North American pattern/oscillation	Hydrometeors									
		Large-scale motions								Wildlife effects			

