

Table: List of Changes to Science Keywords (Release Version 8.5)

55 keywords were added and 30 keywords were modified.

The rationale for the changes includes: New Variables are Needed to Describe Data Sets, New Categories of Variables are Needed to Distinguish Variables

For Science keywords under (Atmosphere > Atmospheric Water Vapor):

Add New Keywords: Water Vapor Processes, Water Vapor Indicators, Water Vapor Indices, Supersaturation, Water Vapor Flux, Water Vapor Convergence, Water Vapor Divergence, Layered Precipitable Water, Saturation Vapor Pressure, Vapor Pressure, Vertically Resolved Backscatter Light, Water Vapor Mixing Ratio Profiles, Water Vapor Concentration Profiles, Humidity Index, Water Vapor Transport Index, Potential Evapotranspiration, Effective Evapotranspiration, Absolute Humidity, Humidity Mixing Ratio, Relative Humidity, Specific Humidity, Saturation Specific Humidity

Replace Keywords: "Precipitable Water" with "Total Precipitable Water"

Move Keywords from Variable Level 1 to Variable Level 2: Condensation, Evaporation, Evapotranspiration, Sublimation, Water Vapor Tendency, Water Vapor, Dew Point Temperature, Humidity, Precipitable Water

For Science keywords under (Atmosphere > Atmospheric Winds):

Add New Keywords: Wind Dynamics, Local Winds, Wind Indices, Advection, Orographic Lifting, Horizontal Wind Velocity/Speed, Storm Relative Winds (Upper Level), Storm Relative Winds (Surface), Wind Direction Tendency (Upper Level), Wind Direction Tendency (Surface), U/V Wind Components (Upper Level), U/V Wind Components (Surface), Velocity Azimuth Display Vertical Wind Profile, Line of Sight Winds, Wind Speed/Velocity Profiles, Wind Direction Profiles, Dust Devils, Microbursts, Sea Breezes, Land Breezes, Orographic Winds, GOES Wind Index, Quasi-biannual Oscillation (QBO) Zonal Wind Index, Vorticity Advection, Potential Vorticity, Vertical Wind Shear, Horizontal Wind Shear, Katabatic Winds, Foehn Winds, Bora Winds, Mountain Breezes, Valley Breezes, Anabatic Winds

Replace Keywords: "Convergence/Divergence" with "Convergence" and "Divergence"; "Vertical Wind Motion" with "Vertical Wind Velocity/Speed"; "Wind Tendency" with "Wind Speed Tendency" (Upper Level) and "Wind Speed Tendency" (Surface); "Wind Speed/Wind Direction" (Surface and Upper Level) with "Wind Speed" (Upper Level), "Wind Speed" (Surface), "Wind Direction" (Upper Level), "Wind Direction" (Surface)

Move Keywords from Variable Level 1 to Variable Level 2: Convection, Convergence, Divergence, Streamfunctions, Turbulence, Vorticity, Wind Shear, Wind Stress, Vertical Wind Velocity/Speed, Wind Speed/Wind Direction (Upper Level), Wind Speed/Wind Direction (Surface), Wind Speed Tendency (Upper Level), Wind Speed Tendency (Surface), Boundary Layer Winds, Flight Level Winds