

Source	Variables	Horizontal resolution	Vertical resolution	Temporal resolution	
TRMM	2A25	Rain type	5.0 km	–	Daily*
		Reflectivity	5.0 km	0.25 km	Daily*
		Rain rate	5.0 km	0.25 km	Daily*
CNEMC ECMWF	3B42	Precipitation	$0.25^\circ \times 0.25^\circ$	–	Three-hourly
		PM ₁₀	–	–	Hourly
	Vertical velocity	$0.125^\circ \times 0.125^\circ$	–	Six-hourly	
	Convective available potential energy	$0.125^\circ \times 0.125^\circ$	–	Six-hourly	
	<i>U</i> component of wind	$0.125^\circ \times 0.125^\circ$	–	Six-hourly	
	<i>V</i> component of wind	$0.125^\circ \times 0.125^\circ$	–	Six-hourly	
	Specific humidity	$0.125^\circ \times 0.125^\circ$	–	Six-hourly	
	Criteria	(1) PM ₁₀ $\leq 200 \mu\text{g m}^{-3}$. (2) Precipitation fall measured by TRMM PR. (3) There must be at least four consecutive levels with $Z \geq 15$ dBZ for a given profile.			