

Source	Variables	Horizontal resolution	Vertical resolution	Temporal resolution
TRMM	2A25	5.0 km	–	Daily*
	Reflectivity	5.0 km	0.25 km	Daily*
	Rain rate	5.0 km	0.25 km	Daily*
CNEMC	3B42	$0.25^\circ \times 0.25^\circ$	–	Three-hourly
	PM <sub>10</sub>	–	–	Hourly
ECMWF	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) $PM_{10} \leq 200 \mu g m^{-3}$ . (2) Precipitation fall measured by TRMM PR. (3) There must be at least four consecutive levels with $Z \geq 15 \text{ dBZ}$ for a given profile.			