

|                               | HadGEM3-RA               | RegCM4               | MM5                | WRF                     | RSM                         |
|-------------------------------|--------------------------|----------------------|--------------------|-------------------------|-----------------------------|
| Resolution                    | 0.44°                    | 50 km                | 50 km              | 50 km                   | 50 km                       |
| Dynamic process               | Nonhydrostatic           | Hydrostatic          | Nonhydrostatic     | Nonhydrostatic          | Hydrostatic                 |
| Convective scheme             | Revised mass flux scheme | MIT–Emanuel          | Kain–Fritch II     | Kain–Fritch II          | Simplified Arakawa–Schubert |
| Land surface parameterization | MOSES2                   | CLM3                 | CLM3               | NOAH                    | NOAH                        |
| Planetary boundary layer      | MOSES2 nonlocal          | Holtslag             | YSU                | YSU                     | YSU                         |
| Spectral nudging              | No                       | Yes                  | Yes                | Yes                     | Yes                         |
| Center of research            | MOHC                     | ICTP                 | NCAR               | NCAR                    | YSU                         |
| References                    | Davies et al. (2005)     | Giorgi et al. (2012) | Cha and Lee (2009) | Skamarock et al. (2005) | Hong et al. (2013)          |