

| | UCLALES-SALSA | MIMICA | COSMO-LES | COSMO-NWP | WRF | UM-CASIM |
|---|--|--|---|---|---|---|
| Described in | Tonttila et al. (2017) | Savre et al. (2014) | Loewe et al. (2017), Seifert and Beheng (2006), Vogel et al. (2009) | Steppeler et al. (2003), Seifert and Beheng (2006), Vogel et al. (2009) | Hines et al. (2015) | Grosvenor et al. (2017) |
| Condition for ice nucleation | No ice nucleation | $S_i > 0.05$ and $q_c > 0.001 \text{ g kg}^{-1}$ | $S_i > 0.05$ and $q_c > 0.001 \text{ g kg}^{-1}$ | $S_i > 0.05$ and $q_c > 0.001 \text{ g kg}^{-1}$ | $S_i > -0.001$ and $T < -8^\circ\text{C}$ | $S_i > -0.001$ and $T < -8^\circ\text{C}$ |
| Number of vertical levels below 2 km | 112 | 128 | 124 | 17 | 25 | 24 |
| Finest vertical resolution (m) | 15.0 | 7.5 | 7.5 | 24.2 | 30.2 | 10.8 |
| Coarsest vertical resolution below 2 km (m) | 47.2 | 47.7 | 228.3 | 237.1 | 141.9 | 156.7 |
| Coarsest vertical resolution below 1.5 km (m) | 23.8 | 35.6 | 35.6 | 202.3 | 108.8 | 136.7 |
| Horizontal resolution | 50 m | 62.5 m | 100 m | 1 km | 1 km | 1 km |
| Horizontal domain size | 3.15 km | 6 km | 6.4 km | 600 km | 600 km | 600 km |
| Prognostic aerosol* | Sectional aerosol (10 size bins; dry diameter from 3 nm to 1 μm) | Two-moment bulk (Igel et al., 2017) | None | None | None | Two-moment bulk |