

	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