

Sheet1

			Resolution [km]	Cutoff	DA window	DA type	ZTD/site	Max age	Min age	Optimal age	
SMHI	HARMONIE AROME	North Europe	2.5	1 h 15 min	3 h	3DVar	1			1 h	
	HARMONIE AROME	North Europe	2.5	3 h	3h	3DVar	1			1 h	
	HARMONIE AROME	Future	nowcasting	Plan 15-30 min	1 h	3DVar	1			30 min	
	HARMONIE AROME	Future				4DVar	1/15 min				
Met Norway	AROME-MetCoop	North Europe	2.5	1 h 15 min	3 h	3DVar				15 min	
	AROME-Arctic	Arctic incl. Barents Sea	2.5	1 h 15 min	3 h	3DVar				15 min	
		Future				4DVar					
UK Met Office	Unified model	Global	10	2h 40 min	6 h	4DVar	1	5 h 40 min	0 min		
	Unified model	UK+surroundings	1.5 Brit., 4 rest	45 min	1 h	4DVar	1	1 h 15 min	15 min	45 min	
IPMA	HARMONIE AROME	Southwest Europe	2.5	1 h	3 h	3DVar	not active			< 1 h	
OMSZ	AROME	Carpathian basin	2.5	1 h 30 min	2 h	3DVar					
AEMET	HARMONIE AROME	Iberia + surroundings	2.5	1 h 10 min	3 h	3DVar	1			< 1 h	
Met Eireann	HARMONIE AROME	Ireland + surroundings	2.5	45 min	3 h	3DVar	1				
		Future RUC		15-20 min	30 min						
KNMI	HIRLAM	Netherlands ++	11	1 h 12 min	[-30; 12] min	3DVar	1			1 h	
	HARMONIE AROME	Netherlands ++	2.5	re-analys	2 h 40 min	3DVar	1			1 h	
				1 h 10 min		3DVar	1				
DWD	ICON-LAM	Germany +	2.1	15 min	1 h	LETKF/Envar	1 or 1/15min	40 min		< 10 min	STD
	ICON-LAM	Future RUC (2020+)		10-15 min							
	ICON-LAM	Global	6.5	2h 14 min	3 h	3/4D-EnVar	3 or 1/15min	3 h 40 min		< 10 min	
RMI	ALARO	Belgium +				3DVar					
Meteo France	AROME-France	Western Europe	1.3	20 min to 3 h	1 h	3DVar	1	45 min		15 min	ZTD, plan STD
	AROME-nowcasting	Western Europe	1.3	10 min	20 min	3DVar	1	15 min		5 min	ZTD, plan STD
	ARPEGE	Global	7.5 over Europe	70 min to 8 h	6 h	4DVar	1/30 min	65 min		30 min	ZTD, plan STD
DMI	HIRLAM	Western Europe	3	1 h 30 min	[-2; 1:30] h	3DVar+FGAT	1	3 h 20 min		1 h 20 min	
				Re-analysis	6 h	3DVar+FGAT	1	~ 5 h		1 h 20 min	
	HIRLAM nowcasting	Western Euopre	3	1 h 30 min	+/- 1 h	3DVar&nudging	1	2 h 30 min		1 h 20 min	
	HARMONIE AROME	Western Europe	2.5	1 h 15 min	[-90; 75] min	3DVar	1	2h 30 min		1h 15 min	
	COMEPS (AROME+HIRLAM ensemble)		2.5 & 3	36 min	[-90; 35] min	3DVar	1	2h		30 min	

Note. Values in italics derived by Henrik Vedel