













Atmosp	heric	Regions	
Lower Troposphere	(LT)	1000hPa to 500hPa 500 bPa to 100 bPa	(Surface to 5km)
Lower Stratosphere Higher Stratosphere/Mesosphere	(LS) (HS)	100 hPa to 10hPa 10hPa to 1hPa	(15km to 15km) (15km to 35km) (35km to 50km)



WMO User I	Requireme	ntsfor Globalal N	lumerical Weather Pr	ediction
		Temperature	Specific Humidity	Surface Pressure
Horizontal Domain	100330701	Global	Global	Global
Horizontal Resolut	ion ^D	50-500 km	50-250 km	50-250km
Vertical Domain	1960	Sfc to 1 hPa	Sfc to 100 hPa	Sfc (msl)
Vertical Resolution ²⁰	LT	0.3-3 km	0.4-2 km	-
	HT	1-3 km	1-3 km	-
	LS	1-3 km		-
	HS	1-3 km		SV(1750)
Time Resolution ³⁰		1-12 hrs	1-12 hrs	1-12hrs
CONTRACTOR OF A DESCRIPTION OF A DESCRIP	LT	0.5-3 K	0.25-1 g/kg 50	0.5-2 hPa
RMS	HT	0.5-3 K	0.025-0.1 g/kg 3)	-
Accuracy 4	LS	0.5-3 K	Contraction of the second s	
	HS	0.5-5 K	-	-
Timeliness		1-4 hrs	1-4 hrs	1-4hrs

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		Temperature	Specific Humidity	Surface Pressure	Refractivity	Bending Angle
Herizontal Domain		Global	Global	Global	Global	Global
Herizontal Sampling		100-1000km	100- 1000km	100-1000km	100- 1000km	100-1000k
Vertical Domain		Sik-1 hPa	Sfc-100 hPa	Sfc (msl)	Sfe-1 hPa	Sfc-80 km
Vertical Sampling	LT HT LS HS	0.3–3km 1–3 km 1–3 km 1–3 km	0.4-2 km 1-3 km		0.3–3 km 1–3 km 1–3 km 1–3 km	2-5 Hz
Time Window	-	1-12 hrs	1-12 hrs	1-12 hrs	1-12 hrs	1-12 hm
RMS Accuracy**	LT HT LS HS	0.5-3 K 0.5-3 K 0.5-3 K 0.5-5 K	0.25-1 g/kg ³⁾ 0.05-0.2g/kg ⁵⁾	0.5-2 hPa 	0.1-0.5% 0.1-0.2% 0.1-0.2% 0.2-2%	1 µmd f or 1 0.4% ^m
Timeliness		1-3 hrs	1-3 hrs	1-3 hrs	1-3 hrs	L-3 hrs

		Temperature	Specific Humidity	Surface Pressure
Horizontal Domain		Regional	Regional	Regional
Horizontal Resolut	rizontal Resolution D		10-100 km	10-250km
Vertical Domain	100	Sfc to 10 hPa	Sfc to 100 hPa	Sfc (msl)
Vertical Resolution ²⁰	LT HT LS	0.3–3 km 1–3 km 1–3 km	0.4–2 km 1–3 km	-
Time Resolution 2)		0.5-12 hrs	0.5-12 hrs	0.5-12hrs
RMS Accuracy ⁴⁰	LT HT LS	0.5-3 K 0.5-3 K 0.5-3 K	0.25-1 g/kg ³⁹ 0.025-0.1 g/kg ³⁹	0.5–1 hPa –
l'imeliness		0.5-2 hrs	0.5-2 hrs	0.5-2 hrs































