

Table: Operational global ensemble prediction systems (February 2014).

	BoM (Australia)	CMA (China)	CMC (Canada)	CPTEC (Brazil)	ECMWF (Europe)	JMA (Japan)	KMA* (Korea)	Meteo France (France)	NCEP (USA)	UKMO (UK)
Data assimilation for control analysis	3D multivariate statistical interpolation	?	EnKF	from NCEP	Ensemble 4D-Var	4D-Var	3D-Var	4D-Var	Gridded Statistical Interpolation	4D-Var
Model uncertainty	N/A	N/A	SP, SKEB, MP	N/A	SP	SP	N/A	MP	SP	SP, SKEB
Initial perturbation (Model resolution)	SVs (TL42L19)	BVs (T213L??)	EnKF (66kmL74?)	EOF-based (T126L28)	SVs (TL42L62)	SVs (TL63L40)	BVs ?	SVs (T44L65, T95L65)	ETR (T254L42?)	ETKF (N400L70)
Forecast model resolution	TL119L19	TL213L31	66kmL74	T126L28	TL639L91 (0-10d) TL319L91 (10-15d)	TL479L60♣	T213L40	T538C2.4L65	T254L42 (0-8d) T190L42 (8-16d)	N216L85
Initial UTC	00, 12	00, 12	00, 12	00, 12	00, 12	00, 12♣	00, 12	06, 18	00, 06, 12, 18	00, 12
Member/run	33	15	21	15	51	27♣	17	35‡	21 ^b	24
Forecast length (days)	10	10	16	15	15	11 [‡]	10.5	3, 4.5 [◇]	16	15
Available period	2007.09.03.00– 2010.07.20.12	2007.05.15.00–	2007.10.03.00–	2008.02.01.00–	2006.10.01.00–	2006.10.01.00–	2007.12.28.00– 2010.11.30.12	2007.10.25.18–	2007.03.05.00–	2006.10.01.00–

*: KMA uses the Met Office Unified Model after 2011.03.01.00 (the KMA EPS is currently almost the same as the UKMO EPS)

‡: 11 members/run only at 18UTC until 2009.12.07.18 ^b: 15 members/run until 2007.03.27.12

‡: up to 9 days until 2013.03.27.12

◇: up to 3(4.5) days for 06(18)UTC. up to 2.5 days until 2009.12.07.18

♣: 51 members once a day at TL319L60 until 2014.02.25.12

(NWP centres)

(model uncertainties)

BoM: Bureau of Meteorology

SP: Stochastic perturbation of physics tendency

CMA: China Meteorological Administration

SKEB: Stochastic Kinetic Energy Backscatter

CMC: Canadian Meteorological Center

MP: Multi parameterizations

CPTEC: Centro de Previsão de Tempo e Estudos Climáticos

ECMWF: European Centre for Medium-Range Weather Forecasts

JMA: Japan Meteorological Agency

KMA: Korea Meteorological Administration

NCEP: National Centers for Environmental Prediction

UKMO: United Kingdom Meteorological Office