



# 13 NMMB members



Mod-Mem	IC	IC pert	LBCs	Physics 1			Physics 2		GWD	Land Surface		
				Conv	PBL	Sfc layer	Microphys	LW, SW Rad	cleffamp	LSM	Initial	Soil pert?
nmmb_ctl	NDAS	Blending (GEFS + SREF)	GFS	BMJ old shal	MYJ	MYJ	Fer_hires	RRTM	cleffamp=1	Noah	NAM	no
nmmb_n1			GEFS 2	SAS	GFS	MYJ	WSM6	GFDL	cleffamp=0.5	Noah	NAM	no
nmmb_p1			GEFS 1	BMJ new shal	MYJ	MYJ	Fer_hires	RRTM	cleffamp=2	Noah	NAM	no
nmmb_n2			GEFS 4	SAS	GFS	MYJ	Fer_hires	GFDL	cleffamp=1	Noah	NAM	Drier soil
nmmb_p2			GEFS 3	BMJ old shal	MYJ	MYJ	WSM6	RRTM	cleffamp=0.5	Noah	NAM	Drier soil
nmmb_n3	GFS	Blending (GEFS + SREF)	GEFS 6	SAS	GFS	MYJ	Fer_hires	GFDL	cleffamp=2	Noah	NAM	Drier soil
nmmb_p3			GEFS 5	BMJ new shal	MYJ	MYJ	WSM6	RRTM	cleffamp=1	Noah	NAM	Drier soil
nmmb_n4			GEFS 8	SAS	GFS	MYJ	WSM6	RRTM	cleffamp=0.5	Noah	NAM	no
nmmb_p4			GEFS 7	BMJ old shal	MYJ	MYJ	Fer_hires	GFDL	cleffamp=2	Noah	NAM	no
nmmb_n5	RAP	Blending (GEFS + SREF)	GEFS 10	SAS	GFS	MYJ	WSM6	RRTM	cleffamp=1	Noah	NAM	Drier soil
nmmb_p5			GEFS 9	BMJ new shal	MYJ	MYJ	Fer_hires	RRTM	cleffamp=0.5	Noah	NAM	Drier soil
nmmb_n6			GEFS 12	SAS	GFS	MYJ	Fer_hires	GFDL	cleffamp=2	Noah	NAM	no
nmmb_p6			GEFS 11	BMJ old shal	MYJ	MYJ	WSM6	GFDL	cleffamp=1	Noah	NAM	no



# 13 ARW members



Mod-Mem	IC	IC pert	LBCs	Physics 1			Physics 2				Land surface		
				Conv	PBL	Sfc layer	Microphy	LW Rad	SW Rad		LSM	Initial	Soil pert?
arw_ctl	RAP	Blending (GEFS + SREF)	GEFS	KF	YSU	MM5	WSM6	RRTMG	RRTMG	no	Noah	NAM	no
arw_n1			GEFS 14	BMJ	MYJ	MYJ	Fer	GFDL	GFDL	no	Noah	NAM	Drier soil
arw_p1			GEFS 13	Grell	MYNN	MYNN	Thompson	Old RRTM	GSFC	no	Noah	NAM	no
arw_n2			GEFS 16	KF	YSU	MM5	Fer	GFDL	GFDL	no	Noah	NAM	Drier soil
arw_p2			GEFS 15	BMJ	MYJ	MYJ	Thompson	RRTMG	RRTMG	no	Noah	NAM	no
arw_n3	GFS	Blending (GEFS + SREF)	GEFS 18	Grell	MYNN	MYNN	WSM6	RRTMG	RRTMG	no	Noah	NAM	Drier soil
arw_p3			GEFS 17	KF	YSU	MM5	Thompson	Old RRTM	GSFC	no	Noah	NAM	no
arw_n4			GEFS 20	BMJ	MYJ	MYJ	WSM6	RRTMG	RRTMG	no	Noah	NAM	no
arw_p4			GEFS 19	KF	YSU	MM5	Fer	GFDL	GFDL	no	Noah	NAM	Drier soil
arw_n5	NDAS	Blending (GEFS + SREF)	GEFS 2	Grell	MYNN	MYNN	Fer	GFDL	GFDL	no	Noah	NAM	no
arw_p5			GEFS 1	KF	YSU	MM5	WSM6	RRTMG	RRTMG	no	Noah	NAM	Drier soil
arw_n6			GEFS 4	BMJ	MYJ	MYJ	Thompson	Old RRTM	GSFC	no	Noah	NAM	Drier soil
arw_p6			GEFS 3	Grell	MYNN	MYNN	Thompson	RRTMG	RRTMG	no	Noah	NAM	no