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Supplemental Materials for

“Defining the Internal Component of Atlantic Multidecadal Variability in a Changing Climate”

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Table S1. Summary of the salient characteristics of the 9 model initial-condition Large Ensembles used in this study. “Macro” refers to different coupled initial states; “Micro” refers to different atmospheric initial states (see Deser et al., 2020).

Modeling Center	Model Version	Model Resolution (atm/ocn)	Years	Initialization Method	Number of Members	Forcing	Reference
CCCma	CanESM2	~2.8°x2.8°/ ~1.4°x0.9°	1950-2100	Macro and Micro	50	historical, rcp85	Kirchmeier-Young et al. (2017)
CSIRO	MK3.6	~1.9°x1.9°/ ~1.9°x1.0°	1850-2100	Macro	30	historical, rcp85	Jeffrey et al. (2013)
GFDL	ESM2M	~2.0°x2.5°/ ~1.0°x0.9°	1950-2100	Macro	30	historical, rcp85	Rodgers et al. (2015)
MPI	MPI-ESM-LR	~1.9°x1.9°/ nominal 1.5°	1850-2100	Macro	100	historical, rcp26, rcp45, rcp85	Maher et al. (2019)
NCAR	CESM1-CAM5	~1.3°x0.9°/ nominal 1.0°	1920-2100	Micro	40	historical, rcp85	Kay et al. (2015)
CCCma	CanESM5	~2.8°x2.8°/ ~1.4°x0.9°	1850-2100	Macro	50	historical, ssp5-8.5	Swart et al. (2019)
GFDL	SPEAR_MED	50km/ nominal 1°	1921-2100	Macro	30	historical, ssp5-8.5	Delworth et al. (2020)
MIROC	MIROC6	~1.4°x1.4°/ nominal 1°	1850-2014	Macro	50	historical, ssp5-8.5	Tatebe et al. (2019)
NCAR	CESM2	~1.3°x0.9°/ nominal 1.0°	1850-2100	Macro and Micro	100 (only members 51-90 used)	historical, ssp3-7.0	Rodgers et al. (2021)

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