

Model simulation	Greenhouse gas concentrations	SIC/SST	Ship emissions	Other anthropogenic aerosol emissions
arctic_2004	Year 2004	Year 2004 (AMIP)	Year 2004 (Dalsøren et al., 2009)	Year 2004 (ACCMIP)
arctic_2050_EM2004	Year 2050 (RCP8.5)	Year 2050 (MPI-ESM RCP8.5)	Year 2004 (Dalsøren et al., 2009)	Year 2004 (ACCMIP)
arctic_2050	Year 2050 (RCP8.5)	Year 2050 (MPI-ESM RCP8.5)	Dalsøren et al. (2009) with emission factors for 2050	Year 2050 (ACCMIP RCP8.5)
arctic_2050_shipping	Year 2050 (RCP8.5)	Year 2050 (MPI-ESM RCP8.5)	Dalsøren et al. (2009) with emission factors for 2050 and additional ship emissions by Peters et al. (2011)	Year 2050 (ACCMIP RCP8.5)