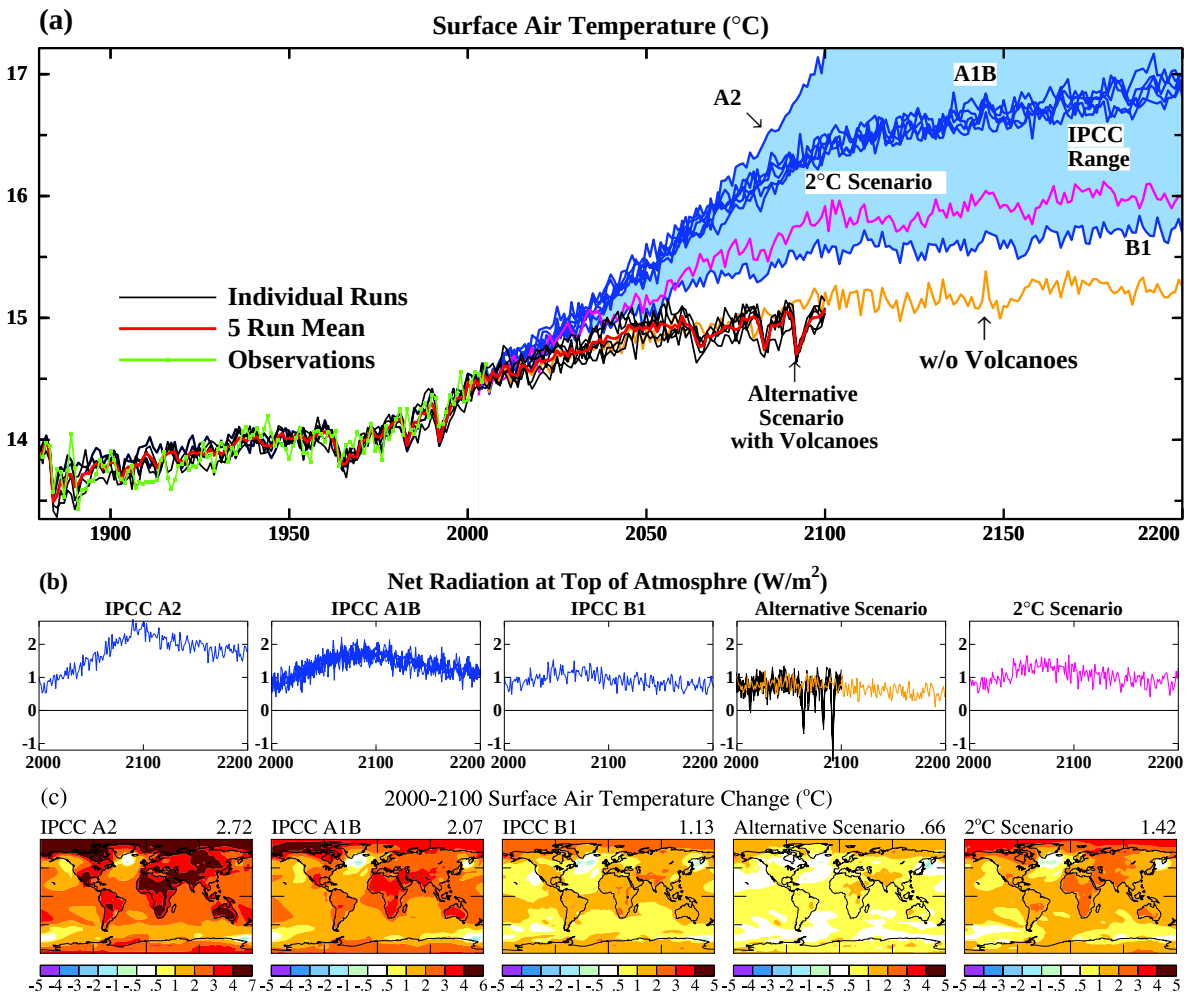

Fig. 3. Global mean surface air temperature for several scenarios calculated by our coupled climate model as extensions of the 1880–2003 simulations for "all forcings". Forcings beyond 2003 for these scenarios are defined in Fig. 2. Stratospheric aerosols in 2010–2100 are the same as in 1910-2000 for the case including future volcanoes. Tropospheric aerosols are unchanging in the 21st century.

Table 1. Forcings and surface air temperature response to different forcings for several periods in the future.

Forcing agent	Run name	Fi	Fa	ΔTs (2000 to Year Below)			
		2000–2100		2050	2100	2200	2300
IPCC Scenarios							
A2	E3IP_A2	6.67	6.23	1.06	2.71	3.33	3.70
A1B	E3IP_A1B	4.72	4.36	1.04	1.99	2.51	2.75
B1	E3IP_B1	2.61	2.38	0.73	1.20	1.36	1.54
GISS Scenarios							
Alternative S. w/o Volcanoes	E3ALT	1.59	1.44	0.50	0.80	0.89	–
Alternative S. with Volcanoes	E3ALTV	–	–	0.53	0.56	–	–
2°C Scenario w/o Volcanoes	E3_2Cx	3.08	2.85	0.81	1.46	1.66	–
Constant Scenario							
2003 Forcings	E3Af8xa	0.05	0.05	0.20	0.28	–	–