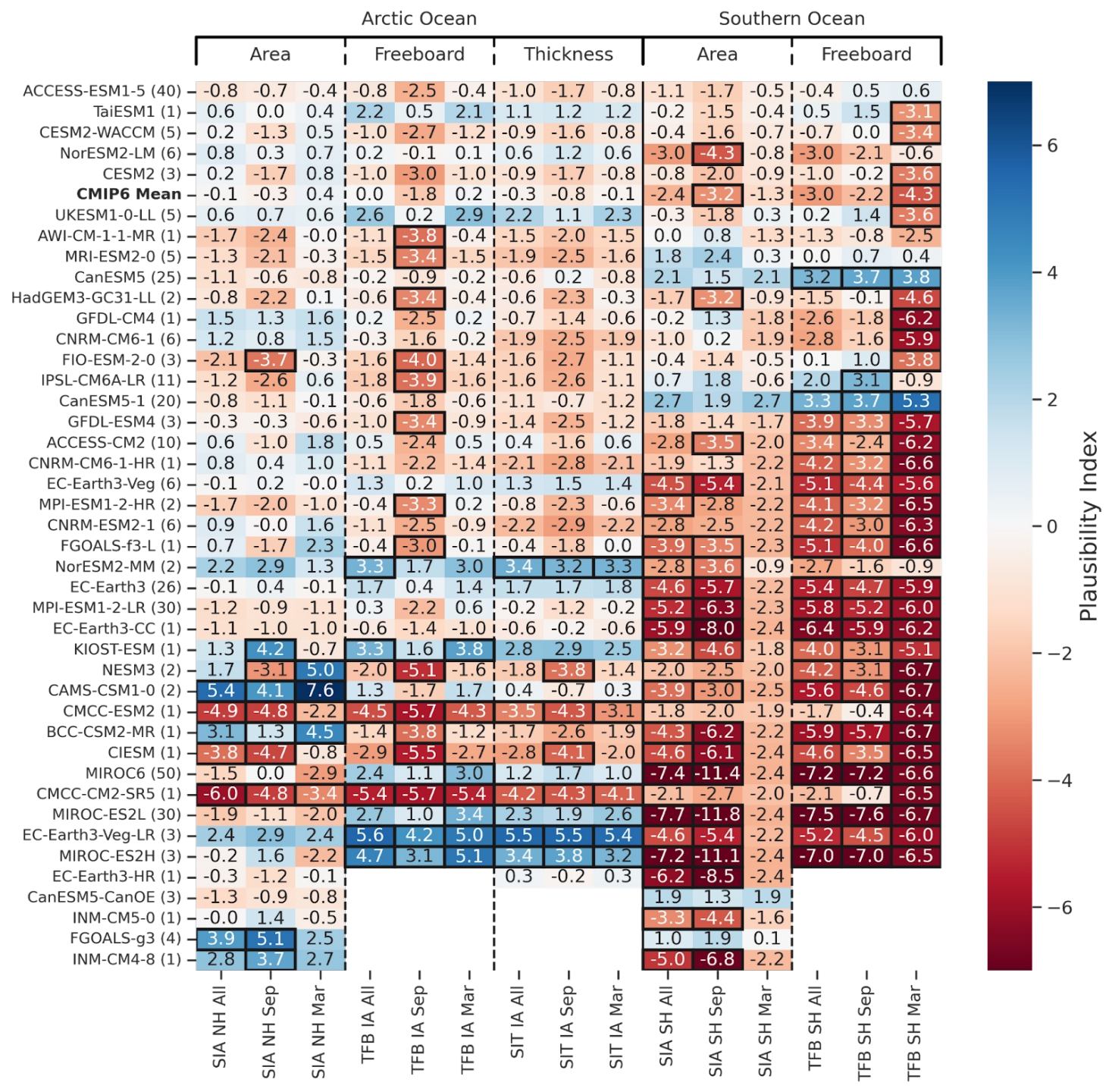
Arctic Ocean
Southern Ocean
Area
Freeboard
Thickness
Area
Freeboard
ACCESS-ESM1-5 (40) -0.8 -0.7 -0.4 -0.8 -2.5 -0.4 -1.0 -1.7 -0.8 -1.1 -1.7 -0.5 -0.4 0.5 0.6
TaiESM1 (1) 0.6 0.0 0.4 2.2 0.5 2.1 1.1 1.2 1.2 -0.2 -1.5 -0.4 0.5 1.5 -3.1
CESM2-WACCM (5) 0.2 -1.3 0.5 -1.0 -2.7 -1.2 -0.9 -1.6 -0.8 -0.4 -1.6 -0.7 -0.7 0.0 -3.4
NorESM2-LM (6) 0.8 0.3 0.7 0.2 -0.1 0.1 0.6 1.2 0.6 -3.0 -4.3 -0.8 -3.0 -2.1 -0.6
CESM2 (3) 0.2 -1.7 0.8 -1.0 -3.0 -1.0 -0.9 -1.7 -0.8 -0.8 -2.0 -0.9 -1.0 -0.2 -3.6
CMIP6 Mean -0.1 -0.3 0.4 0.0 -1.8 0.2 -0.3 -0.8 -0.1 -2.4 -3.2 -1.3 -3.0 -2.2 -4.3
UKESM1-0-LL (5) 0.6 0.7 0.6 2.6 0.2 2.9 2.2 1.1 2.3 -0.3 -1.8 0.3 0.2 1.4 -3.6
AWI-CM-1-1-MR (1) -1.7 -2.4 -0.0 -1.1 -3.8 -0.4 -1.5 -2.0 -1.5 0.0 0.8 -1.3 -1.3 -0.8 -2.5
MRI-ESM2-0 (5) -1.3 -2.1 -0.3 -1.5 -3.4 -1.5 -1.9 -2.5 -1.6 1.8 2.4 0.3 0.0 0.7 0.4
CanESM5 (25) -1.1 -0.6 -0.8 -0.2 -0.9 -0.2 -0.6 0.2 -0.8 2.1 1.5 2.1 3.2 3.7 3.8
HadGEM3-GC31-LL (2) -0.8 -2.2 0.1 -0.6 -3.4 -0.4 -0.6 -2.3 -0.3 -1.7 -3.2 -0.9 -1.5 -0.1 -4.6
GFDL-CM4 (1) 1.5 1.3 1.6 0.2 -2.5 0.2 -0.7 -1.4 -0.6 -0.2 1.3 -1.8 -2.6 -1.8 -6.2
CNRM-CM6-1 (6) 1.2 0.8 1.5 -0.3 -1.6 -0.2 -1.9 -2.5 -1.9 -1.0 0.2 -1.9 -2.8 -1.6 -5.9
FIO-ESM-2-0 (3) -2.1 -3.7 -0.3 -1.6 -4.0 -1.4 -1.6 -2.7 -1.1 -0.4 -1.4 -0.5 0.1 1.0 -3.8
IPSL-CM6A-LR (11) -1.2 -2.6 0.6 -1.8 -3.9 -1.6 -1.6 -2.6 -1.1 0.7 1.8 -0.6 2.0 3.1 -0.9
CanESM5-1 (20) -0.8 -1.1 -0.1 -0.6 -1.8 -0.6 -1.1 -0.7 -1.2 2.7 1.9 2.7 3.3 3.7 5.3
GFDL-ESM4 (3) -0.3 -0.3 -0.6 -1.0 -3.4 -0.9 -1.4 -2.5 -1.2 -1.8 -1.4 -1.7 -3.9 -3.3 -5.7
ACCESS-CM2 (10) 0.6 -1.0 1.8 0.5 -2.4 0.5 0.4 -1.6 0.6 -2.8 -3.5 -2.0 -3.4 -2.4 -6.2
CNRM-CM6-1-HR (1) 0.8 0.4 1.0 -1.1 -2.2 -1.4 -2.1 -2.8 -2.1 -1.9 -1.3 -2.2 -4.2 -3.2 -6.6
EC-Earth3-Veg (6) -0.1 0.2 -0.0 1.3 0.2 1.0 1.3 1.5 1.4 -4.5 -5.4 -2.1 -5.1 -4.4 -5.6
MPI-ESM1-2-HR (2) -1.7 -2.0 -1.0 -0.4 -3.3 0.2 -0.8 -2.3 -0.6 -3.4 -2.8 -2.2 -4.1 -3.2 -6.5
CNRM-ESM2-1 (6) 0.9 -0.0 1.6 -1.1 -2.5 -0.9 -2.2 -2.9 -2.2 -2.8 -2.5 -2.2 -4.2 -3.0 -6.3
FGOALS-f3-L (1) 0.7 -1.7 2.3 -0.4 -3.0 -0.1 -0.4 -1.8 0.0 -3.9 -3.5 -2.3 -5.1 -4.0 -6.6
NorESM2-MM (2) 2.2 2.9 1.3 3.3 1.7 3.0 3.4 3.2 3.3 -2.8 -3.6 -0.9 -2.7 -1.6 -0.9
EC-Earth3 (26) -0.1 0.4 -0.1 1.7 0.4 1.4 1.7 1.7 1.8 -4.6 -5.7 -2.2 -5.4 -4.7 -5.9
MPI-ESM1-2-LR (30) -1.2 -0.9 -1.1 0.3 -2.2 0.6 -0.2 -1.2 -0.2 -5.2 -6.3 -2.3 -5.8 -5.2 -6.0
EC-Earth3-CC (1) -1.1 -1.0 -1.0 -0.6 -1.4 -1.0 -0.6 -0.2 -0.6 -5.9 -8.0 -2.4 -6.4 -5.9 -6.2
KIOST-ESM (1) 1.3 4.2 -0.7 3.3 1.6 3.8 2.8 2.9 2.5 -3.2 -4.6 -1.8 -4.0 -3.1 -5.1
NESM3 (2) 1.7 -3.1 5.0 -2.0 -5.1 -1.6 -1.8 -3.8 -1.4 -2.0 -2.5 -2.0 -4.2 -3.1 -6.7
CAMS-CSM1-0 (2) 5.4 4.1 7.6 1.3 -1.7 1.7 0.4 -0.7 0.3 -3.9 -3.0 -2.5 -5.6 -4.6 -6.7
CMCC-ESM2 (1) -4.9 -4.8 -2.2 -4.5 -5.7 -4.3 -3.5 -4.3 -3.1 -1.8 -2.0 -1.9 -1.7 -0.4 -6.4
BCC-CSM2-MR (1) 3.1 1.3 4.5 -1.4 -3.8 -1.2 -1.7 -2.6 -1.9 -4.3 -6.2 -2.2 -5.9 -5.7 -6.7
CIESM (1) -3.8 -4.7 -0.8 -2.9 -5.5 -2.7 -2.8 -4.1 -2.0 -4.6 -6.1 -2.4 -4.6 -3.5 -6.5
MIROC6 (50) -1.5 0.0 -2.9 2.4 1.1 3.0 1.2 1.7 1.0 -7.4 -11.4 -2.4 -7.2 -7.2 -6.6
CMCC-CM2-SR5 (1) -6.0 -4.8 -3.4 -5.4 -5.7 -5.4 -4.2 -4.3 -4.1 -2.1 -2.7 -2.0 -2.1 -0.7 -6.5
MIROC-ES2L (30) -1.9 -1.1 -2.0 2.7 1.0 3.4 2.3 1.9 2.6 -7.7 -11.8 -2.4 -7.5 -7.6 -6.7
EC-Earth3-Veg-LR (3) 2.4 2.9 2.4 5.6 4.2 5.0 5.5 5.5 5.4 -4.6 -5.4 -2.2 -5.2 -4.5 -6.0
MIROC-ES2H (3) -0.2 1.6 -2.2 4.7 3.1 5.1 3.4 3.8 3.2 -7.2 -11.1 -2.4 -7.0 -7.0 -6.5
EC-Earth3-HR (1) -0.3 -1.2 -0.1 0.3 -0.2 0.3 -6.2 -8.5 -2.4
CanESM5-CanOE (3) -1.3 -0.9 -0.8 1.9 1.3 1.9
INM-CM5-0 (1) -0.0 1.4 -0.5 -3.3 -4.4 -1.6
FGOALS-g3 (4) 3.9 5.1 2.5 1.0 1.9 0.1
INM-CM4-8 (1) 2.8 3.7 2.7 -5.0 -6.8 -2.2
SIA NH All
SIA NH Sep
SIA NH Mar
TFB IA All
TFB IA Sep
TFB IA Mar
SIT IA All
SIT IA Sep
SIT IA Mar
SIA SH All
SIA SH Sep
SIA SH Mar
TFB SH All
TFB SH Sep
TFB SH Mar
Plausibility Index
6
4
2
0
−2
−4
−6