Table 3SM.1: 3.4.2 Freshwater resources

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Water scarcity	Global	%	1980–2009	N/A	N/A	19GCM from the CMIP3 archive, MAGICC6, SRES A1F1, RCP8.5, 2086–2115	N/A	Y	N/A	8	N/A	N/A	8	2	N/A	N/A	Million people	Gerten et al., 2013	19GCM from the CMIP3 archive	N/A	2086–2115	Table 1, Fig.4 (a)
Water scarcity	Global	Million people (<1000m^{3} cap^{-1} yr^{-1})	1980–2009	N/A	N/A	19GCM from the CMIP3 archive, MAGICC6, SRES A1F1, RCP8.5, 2086–2115	N/A	Y	N/A	1397	N/A	N/A	1397	2	N/A	Total 6012, affected 1267	Million people	Gerten et al., 2013	19GCM from the CMIP3 archive	N/A	2086–2115	Table 1
Water scarcity	Europe	Million people (<1000m3 cap-1 yr-1)	1980–2009	N/A	N/A	19GCM from the CMIP3 archive, MAGICC6, SRES A1F1, RCP8.5, 2086–2115	N/A	Y	N/A	118	N/A	N/A	118	2	N/A	Total 505, affected 110	Million people	Gerten et al., 2013	19GCM from the CMIP3 archive	N/A	2086–2115	Table 1
Water scarcity	Asia	Million people (<1000m3cap-1yr-1)	1980–2009	N/A	N/A	19GCM from the CMIP3 archive, MAGICC6, SRES A1F1, RCP8.5, 2086–2115	N/A	Y	N/A	Y	N/A	N/A	988	2	N/A	Total 3879, affected 870	Million people	Gerten et al., 2013	19GCM from the CMIP3 archive	N/A	2086–2115	Table 1
Water scarcity	Africa	Million people (<1000m3cap-1yr-1)	1980–2009	N/A	N/A	19GCM from the CMIP3 archive, MAGICC6, SRES A1F1, RCP8.5, 2086–2115	N/A	Y	N/A	115	N/A	N/A	115	2	N/A	Total 775, affected 115	Million people	Gerten et al., 2013	19GCM from the CMIP3 archive	N/A	2086–2115	Table 1
Water scarcity	North America	Million people (<1000m3cap-1yr-1)	1980–2009	N/A	N/A	19GCM from the CMIP3 archive, MAGICC6, SRES A1F1, RCP8.5, 2086–2115	N/A	Y	N/A	81	N/A	N/A	81	2	N/A	Total 479, affected 83	Million people	Gerten et al., 2013	19GCM from the CMIP3 archive	N/A	2086–2115	Table 1
Water scarcity	South America	Million people (<1000m3cap-1yr-1)	1980–2009	N/A	N/A	19GCM from the CMIP3 archive, MAGICC6, SRES A1F1, RCP8.5, 2086–2115	N/A	Y	N/A	82	N/A	N/A	82	2	N/A	Total 345, affected 77	Million people	Gerten et al., 2013	19GCM from the CMIP3 archive	N/A	2086–2115	Table 1
Water scarcity	Oceania	Million people (<1000m3cap-1yr-1)	1980–2009	N/A	N/A	19GCM from the CMIP3 archive, MAGICC6, SRES A1F1, RCP8.5, 2086–2115	N/A	Y	N/A	13	N/A	N/A	13	2	N/A	Total 29, affected 13	Million people	Gerten et al., 2013	19GCM from the CMIP3 archive	N/A	2086–2115	Table 1
Water resources	Global	%	1980–2010	SSP2	0,7	Transition of RCP8.5, 2090, 11 GHMs by 5 GCMs	T	Y	N/A	N/A	N/A	N/A	8	1,7	1	N/A	N/A	Schewe et al., 2014	HadGEM2-ES,IPSL-CM5A LR,MIROC-ESM-CHEM,GFDL-ESM2M,NorESM1-M	N/A	2090	Fig.2,p3247 Table S1 (GCM) Table S2 (GHM)
Water resources	Global	%	1980–2010	SSP2	0,7	Transition of RCP8.5, 2090, 11 GHMs by 5 GCMs	T	Y	N/A	N/A	N/A	N/A	14	2,7	2	N/A	N/A	Schewe et al., 2014	HadGEM2-ES,IPSL-CM5A LR,MIROC-ESM-CHEM,GFDL-ESM2M,NorESM1-M	N/A	2090	Fig.2,p3247 Table S1 (GCM) Table S2 (GHM)
Water scarcity, increased water resources stress	Global	Million people	1961–1990	SSP1	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	E	N/A	1330	N/A	N/A	N/A	1330 (379-2997)	Around 1.6	Around 1.3	Population in 2050, total 8411, water stressed 3286	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1 Supplementary Table 1 (GCM)
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP1	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	1514	N/A	N/A	1514 (810-2845)	Around 2	Around 1.7	Population in 2050, total 8411, water stressed 3286	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP2	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	E	N/A	1575	N/A	N/A	N/A	1575 (473-3434)	Around 1.6	Around 1.3	Population in 2050, total 9245, water stressed 4079	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP2	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	1794	N/A	N/A	1794 (881-3239)	Around 2	Around 1.7	Population in 2050, total 9245, water stressed 4079	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP3	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	E	N/A	1887	N/A	N/A	N/A	1887 (626-4088)	Around 1.6	Around 1.3	Population in 2050, total 10233, water stressed 4774	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP3	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	2157	N/A	N/A	2157 (1037-3975)	Around 2	Around 1.7	Population in 2050, total 10233, water stressed 4774	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP4	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	E	N/A	1656	N/A	N/A	N/A	1656 (508-3481)	Around 1.6	Around 1.3	Population in 2050, total 9368, water stressed 4236	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP4	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	1867	N/A	N/A	1867 (884-3444)	Around 2	Around 1.7	Population in 2050, total 9368, water stressed 4236	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP5	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	T	N/A	1375	N/A	N/A	N/A	1375 (418-3033)	Around 1.6	Around 1.3	Population in 2050, total 8508, water stressed 3350	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1
Water scarcity, increased water resources stress	Global	Million people (<1000m3cap-1yr-1)	1961–1990	SSP5	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	1566	N/A	N/A	1566 (854-2879)	Around 2	Around 1.7	Population in 2050, total 8508, water stressed 3350	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 a) Fig.1
Freshwater stress	Bahamas	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,27	N/A	N/A	N/A	1,27	1,5	0,9	0,34	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Bahamas	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,27	N/A	N/A	1,27	2	1,4	0,34	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Freshwater stress	Belize	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,4	N/A	N/A	N/A	1,4	1,5	0,9	0,31	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Belize	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,41	N/A	N/A	1,41	2	1,4	0,31	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Cabo Verde	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,18	N/A	N/A	N/A	1,18	1,5	0,9	0,5	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Cabo Verde	FSI (freshwater stress index) = PCI (population change index) ×ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,2	N/A	N/A	1,2	2	1,4	0,5	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Comoros	FSI (freshwater stress index) = PCI (population change index) ×ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,43	N/A	N/A	N/A	1,43	1,5	0,9	0,73	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Comoros	FSI (freshwater stress index) = PCI (population change index) ×ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,44	N/A	N/A	1,44	2	1,4	0,73	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Cuba	FSI (freshwater stress index) = PCI (population change index) ×ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	0,98	N/A	N/A	N/A	0,98	1,5	0,9	11,26	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Cuba	FSI (freshwater stress index) = PCI (population change index) ×ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	0,99	N/A	N/A	0,99	2	1,4	11,26	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Freshwater stress	Dominican Republic	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,28	N/A	N/A	N/A	1,28	1,5	0,9	9,93	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Dominican Republic	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,36	N/A	N/A	1,36	2	1,4	9,93	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Fiji	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,13	N/A	N/A	N/A	1,13	1,5	0,9	0,86	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Fiji	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,16	N/A	N/A	1,16	2	1,4	0,86	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Grenada	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,16	N/A	N/A	N/A	1,16	1,5	0,9	0,1	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Grenada	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,21	N/A	N/A	1,21	2	1,4	0,1	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Guinea-Bissau	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,51	N/A	N/A	N/A	1,51	1,5	0,9	1,52	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Guinea-Bissau	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,5	N/A	N/A	1,5	2	1,4	1,52	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Freshwater stress	Guyana	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,11	N/A	N/A	N/A	1,11	1,5	0,9	0,75	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Guyana	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,12	N/A	N/A	1,12	2	1,4	0,75	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Haiti	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,25	N/A	N/A	N/A	1,25	1,5	0,9	9,99	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Haiti	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,31	N/A	N/A	1,31	2	1,4	9,99	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Jamaica	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,09	N/A	N/A	N/A	1,09	1,5	0,9	2,74	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Jamaica	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,13	N/A	N/A	1,13	2	1,4	2,74	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Maldives	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,25	N/A	N/A	N/A	1,25	1,5	0,9	0,32	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Maldives	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,22	N/A	N/A	1,22	2	1,4	0,32	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Freshwater stress	Mauritius	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,13	N/A	N/A	N/A	1,13	1,5	0,9	1,3	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Mauritius	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,17	N/A	N/A	1,17	2	1,4	1,3	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Micronesia	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,03	N/A	N/A	N/A	1,03	1,5	0,9	0,11	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Micronesia	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,03	N/A	N/A	1,03	2	1,4	0,11	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Papua New Guinea	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,37	N/A	N/A	N/A	1,37	1,5	0,9	6,86	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Papua New Guinea	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,37	N/A	N/A	1,37	2	1,4	6,86	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	St. Lucia	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,23	N/A	N/A	N/A	1,23	1,5	0,9	0,17	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	St. Lucia	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,27	N/A	N/A	1,27	2	1,4	0,17	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Freshwater stress	St. Vincent & Grenadines	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,06	N/A	N/A	N/A	1,06	1,5	0,9	0,11	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	St. Vincent & Grenadines	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,11	N/A	N/A	1,11	2	1,4	0,11	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Samoa	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,02	N/A	N/A	N/A	1,02	1,5	0,9	0,18	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Samoa	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,06	N/A	N/A	1,06	2	1,4	0,18	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Sao Tome & Principe	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,17	N/A	N/A	N/A	1,17	1,5	0,9	0,17	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Sao Tome & Principe	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,17	N/A	N/A	1,17	2	1,4	0,17	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Singapore	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,25	N/A	N/A	N/A	1,25	1,5	0,9	5,09	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Singapore	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,26	N/A	N/A	1,26	2	1,4	5,09	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Freshwater stress	Solomon Islands	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,45	N/A	N/A	N/A	1,45	1,5	0,9	0,54	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Solomon Islands	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,47	N/A	N/A	1,47	2	1,4	0,54	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Suriname	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,25	N/A	N/A	N/A	1,25	1,5	0,9	0,52	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Suriname	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,25	N/A	N/A	1,25	2	1,4	0,52	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Timor-Leste	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,52	N/A	N/A	N/A	1,52	1,5	0,9	1,12	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Timor-Leste	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,54	N/A	N/A	1,54	2	1,4	1,12	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Tonga	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,07	N/A	N/A	N/A	1,07	1,5	0,9	0,1	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Tonga	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,07	N/A	N/A	1,07	2	1,4	0,1	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Freshwater stress	Trinidad & Tobago	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,1	N/A	N/A	N/A	1,1	1,5	0,9	1,34	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Trinidad & Tobago	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,14	N/A	N/A	1,14	2	1,4	1,34	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Vanuatu	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0,6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	1,5	N/A	N/A	N/A	1,5	1,5	0,9	0,24	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Freshwater stress	Vanuatu	FSI (freshwater stress index) = PCI (population change index) × ACI (aridity change index)	1986–2005 (climatology), 2010 (population)	SSP1–5	0.6	20GCM, CMIP5, 2030, RCP8.5, SSP2	T	Y	N/A	1,52	N/A	N/A	1,52	2	1,4	0,24	Million people（2010）	Karnauskas et al., 2018	access1-0,access1-3,bcc-csm1-1,csm1-1-m,cesm1-cam5,cnrm-cm5,csiro-mk3-6-0,gfdl-cm3,gfdl-esm2g,gfdl-esm2m,giss-e2-r,hadgem2-cc,hadgem2-es,inmcm4,ipsl-cm5a-lr,ipsl-cm5a-mr,miroc-esm,miroc-esm,-chem,miroc5,mri-cgcm3	N/A	2100	Table 1
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2011–2040, MIROC-ESM-CHEM, H08	T	Y	N/A	1,4	N/A	N/A	1,4	2,1	1,7	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2011–2040	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2041–2070, MIROC-ESM-CHEM, H08	E	Y	N/A	N/A	N/A	N/A	0,8	2,8	2,4	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2071–2100, MIROC-ESM-CHEM, H08	E	Y	N/A	N/A	N/A	N/A	1,6	2,8	2,4	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2071–2100	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2011–2040, HadGEM2-ES, H08	T	Y	N/A	N/A	N/A	N/A	0,9	2,2	1,8	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2011–2040	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2041–2070, HadGEM2-ES, H08	E	Y	N/A	N/A	N/A	N/A	-0.0	2,8	2,4	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2071–2100, HadGEM2-ES, H08	E	Y	N/A	N/A	N/A	N/A	-0,2	2,7	2,3	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2071–2100	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2011–2040, GFDL-ESM2M, H08	T	Y	1,8	N/A	N/A	N/A	1,8	1,5	1,1	3214	km^3 yr^{-1}	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2011–2040	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2041–2070, GFDL-ESM2M, H08	E	Y	N/A	N/A	N/A	N/A	2	1,7	1,3	3214	km^3 yr^{-1}	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP2.6, 2071–2100, GFDL-ESM2M, H08	E	Y	1,1	N/A	N/A	N/A	1,1	1,6	1,2	3214	km^3 yr^{-1}	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2071–2100	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2011–2040, MIROC-ESM-CHEM, H08	T	Y	N/A	1,4	N/A	N/A	1,4	1,9	1,5	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2011–2040	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2041–2070, MIROC-ESM-CHEM, H08	T	Y	N/A	N/A	N/A	N/A	2,4	3,3	2,9	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2071–2100, MIROC-ESM-CHEM, H08	T	Y	N/A	N/A	N/A	2,8	2,8	4	3,6	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2071–2100	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2011–2040, HadGEM2-ES, H08	T	Y	N/A	0,6	N/A	N/A	0,6	2,1	1,7	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2011–2040	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2041–2070, HadGEM2-ES, H08	T	Y	N/A	N/A	N/A	N/A	1,7	3,5	3,1	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2071–2100, HadGEM2-ES, H08	T	Y	N/A	N/A	N/A	N/A	1,9	4,3	3,9	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2071–2100	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2011–2040, GFDL-ESM2M, H08	T	Y	2,3	N/A	N/A	N/A	2,3	1,6	1,2	3214	km^3 yr^{-1}	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2011–2040	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2041–2070, GFDL-ESM2M, H08	T	Y	N/A	N/A	N/A	N/A	2,3	2,2	1,8	3214	km^3 yr^{-1}	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP4.5, 2071–2100, GFDL-ESM2M, H08	T	Y	N/A	N/A	N/A	N/A	2,4	2,4	2	3214	km^3 yr^{-1}	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2071–2100	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2011–2040, MIROC-ESM-CHEM, H08	T	Y	N/A	2	N/A	N/A	2	2,1	1,7	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2011–2040	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2041–2070, MIROC-ESM-CHEM, H08	T	Y	N/A	N/A	N/A	N/A	4,8	4,2	3,8	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2071–2100, MIROC-ESM-CHEM, H08	T	Y	N/A	N/A	N/A	N/A	10	6,7	6,3	3214	km^3 yr^{-1}	Hanasaki et al., 2013	MIROC-ESM-CHEM	N/A	2071–2100	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2011–2040, HadGEM2-ES, H08	T	Y	N/A	N/A	N/A	N/A	0,9	2,3	1,9	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2011–2040	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2041–2070, HadGEM2-ES, H08	T	Y	N/A	N/A	N/A	N/A	2,9	4,4	4	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2071–2100, HadGEM2-ES, H08	T	Y	N/A	N/A	N/A	N/A	6,7	6,8	6,4	3214	km^3 yr^{-1}	Hanasaki et al., 2013	HadGEM2-ES	N/A	2071–2100	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2011–2040, GFDL-ESM2M, H08	T	Y	1,7	N/A	N/A	N/A	1,7	1,6	1,2	3214	km^3 yr^{-1}	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2011–2040	Table 6, Table 9

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2041–2070, GFDL-ESM2M, H08	T	Y	N/A	N/A	N/A	N/A	3,8	2,8	2,4	3214	$km^3\ yr^{-1}$	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2041–2070	Table 6, Table 9
Water scarcity, water withdrawal	Global	%	1971–2000	SSP1–5	0,4	RCP8.5, 2071–2100, GFDL-ESM2M, H08	T	Y	N/A	N/A	N/A	N/A	7,1	4,2	3,8	3214	$km^3\ yr^{-1}$	Hanasaki et al., 2013	GFDL-ESM2M	N/A	2071–2100	Table 6, Table 9
Impacts on hydropower production	Greece, Portugal, Spain	% (power change)	1971–2000	N/A	N/A	3 GCMs and 3 RCMs, RCP4.5, 8.5, 2004–2043	N/A	N/A	Decrease 5% or less	N/A	N/A	N/A	Decrease 5% or less	1,5	N/A	N/A	N/A	Tobin et al., 2018	MPI-ESM-LR-r1,HadGEM2-ES-r1,EC-EARTH(-r1,-r12)	CSC-REMO,SMHI-RCA4,KNMI-RACMO22E	N/A	p5, Fig.1c
Impacts on hydropower production	Greece, Portugal, Spain	% (power change)	1971–2000	N/A	N/A	3 GCMs and 3 RCMs, RCP4.5, 8.5, 2016–2059	N/A	N/A	N/A	Decrease below 10%	N/A	N/A	Decrease below 10%	2	N/A	N/A	N/A	Tobin et al., 2018	MPI-ESM-LR-r1,HadGEM2-ES-r1,EC-EARTH(-r1,-r12)	CSC-REMO,SMHI-RCA4,KNMI-RACMO22E	N/A	p5, Fig.1c
Impacts on hydropower production	Greece, Portugal, Spain	% (power change)	1971–2000	N/A	N/A	3 GCMs and 3 RCMs, RCP4.5, 8.5, 2037–2084	N/A	N/A	N/A	N/A	Decrease between 15–20%	N/A	Decrease between 15–20%	3	N/A	N/A	N/A	Tobin et al., 2018	MPI-ESM-LR-r1,HadGEM2-ES-r1,EC-EARTH(-r1,-r12)	CSC-REMO,SMHI-RCA4,KNMI-RACMO22E	N/A	p5, Fig.1c
Impacts on thermoelectric power production	Europe	% (power change)	1971–2000	N/A	N/A	3 GCMs and 3 RCMs, RCP4.5, 8.5, 2004–2043	N/A	N/A	Decrease about 5%	N/A	N/A	N/A	Decrease about 5%	1,5	N/A	N/A	N/A	Tobin et al., 2018	MPI-ESM-LR-r1,HadGEM2-ES-r1,EC-EARTH(-r1,-r12)	CSC-REMO,SMHI-RCA4,KNMI-RACMO22E	N/A	p5, Fig.1d
Impacts on thermoelectric power production	Europe	% (power change)	1971–2000	N/A	N/A	3 GCMs and 3 RCMs, RCP4.5, 8.5, 2016–2059	N/A	N/A	N/A	Decrease about 10%	N/A	N/A	Decrease about 10%	2	N/A	N/A	N/A	Tobin et al., 2018	MPI-ESM-LR-r1,HadGEM2-ES-r1,EC-EARTH(-r1,-r12)	CSC-REMO,SMHI-RCA4,KNMI-RACMO22E	N/A	p5, Fig.1d
Impacts on thermoelectric power production	Europe	% (power change)	1971–2000	N/A	N/A	3 GCMs and 3 RCMs, RCP4.5, 8.5, 2037–2084	N/A	N/A	N/A	N/A	Decrease abut 15% (Bulgaria, Greece, Spain; 15–20% decrease)	N/A	Decrease about15% (Bulgaria, Greece, Spain; 15–20% decrease)	3	N/A	N/A	N/A	Tobin et al., 2018	MPI-ESM-LR-r1,HadGEM2-ES-r1,EC-EARTH(-r1,-r12)	CSC-REMO,SMHI-RCA4,KNMI-RACMO22E	N/A	p5, Fig.1d
Increased flooding, population affected	Global	%	1976–2005	N/A	N/A	Transition, 7 GCMs, EC-EARTH3-HR v3.1, RCP8.5	T	N/A	100	N/A	N/A	N/A	100	1,5	N/A	N/A	N/A	Alfieri et al., 2017	IPSL-CM5A-LR, GFDL-ESM2M ,HadGEM2-ES, EC-EARTH, GISS-E2-H, IPSL-CM5A-MR, HadCM3LC	N/A	2100	p 176-179 Fig4-Fig6
Increased flooding, population affected	Global	%	1976–2005	N/A	N/A	Transition, 7 GCMs, EC-EARTH3-HR v3.1, RCP8.5	T	N/A	N/A	170	N/A	N/A	170	2	N/A	N/A	N/A	Alfieri et al., 2017	IPSL-CM5A-LR, GFDL-ESM2M ,HadGEM2-ES, EC-EARTH, GISS-E2-H, IPSL-CM5A-MR, HadCM3LC	N/A	2100	p 176-179 Fig4-Fig6
Increased flooding, population affected	Global	%	1976–2005	N/A	N/A	Transition, 7 GCMs, EC-EARTH3-HR v3.1, RCP8.5	T	N/A	N/A	N/A	N/A	580	580	4	N/A	N/A	N/A	Alfieri et al., 2017	IPSL-CM5A-LR, GFDL-ESM2M ,HadGEM2-ES, EC-EARTH, GISS-E2-H, IPSL-CM5A-MR, HadCM3LC	N/A	2100	p 176-179 Fig4-Fig6
River flood risk	38 European countries	Population affected (1000pp/year)	1976–2005	N/A	N/A	7 JRC-EU, 5 ISIMIP, 7 JRC GL, RCP8.5, SWLs (specific warming levels)	N/A	N/A	650	N/A	N/A	N/A	650	1,5	N/A	350	Population affected (1000pp/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR),5 ISIMIP(GFDL-ESM2M ,HadGEM2-ES,IPSL-CM5A-LR,MIROC-ESM-CHEM,NorESM1-M),7 JRC-GL(IPSL-CM5A-LR,GFDL-ESM2M,HadGEM2-ES,EC EARTH,GISS-E2-H,IPSL-CM5A-MR,HadCM3LC)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4),JRC-GL(EC-EARTH3-HR)	N/A	Table 3
River flood risk	38 European countries	Population affected (1000pp/year)	1976–2005	N/A	N/A	7 JRC-EU, 5 ISIMIP, 7 JRC GL, RCP8.5, SWLs (specific warming levels)	N/A	N/A	N/A	674	N/A	N/A	674	2	N/A	350	Population affected (1000pp/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR),5 ISIMIP(GFDL-ESM2M ,HadGEM2-ES,IPSL-CM5A-LR,MIROC-ESM-CHEM,NorESM1-M),7 JRC-GL(IPSL-CM5A-LR,GFDL-ESM2M,HadGEM2-ES,EC EARTH,GISS-E2-H,IPSL-CM5A-MR,HadCM3LC)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4),JRC-GL(EC-EARTH3-HR)	N/A	Table 3
River flood risk	38 European countries	Population affected (1000pp/year)	1976–2005	N/A	N/A	7 JRC-EU, 5 ISIMIP, 7 JRC GL, RCP8.5, SWLs (specific warming levels)	N/A	N/A	N/A	N/A	781	N/A	781	3	N/A	350	Population affected (1000pp/year)	Alfieri et al.,2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR),5 ISIMIP(GFDL-ESM2M ,HadGEM2-ES,IPSL-CM5A-LR,MIROC-ESM-CHEM,NorESM1-M),7 JRC-GL(IPSL-CM5A-LR,GFDL-ESM2M,HadGEM2-ES,EC EARTH,GISS-E2-H,IPSL-CM5A-MR,HadCM3LC)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4),JRC-GL(EC-EARTH3-HR)	N/A	Table 3
River flood risk	38 European countries	Population affected, relative change (%)	1976–2005	N/A	N/A	7 JRC-EU, 5 ISIMIP, 7 JRC GL, RCP8.5, SWLs (specific warming levels)	N/A	N/A	86	N/A	N/A	N/A	86	1,5	N/A	350	Population affected (1000pp/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR),5 ISIMIP(GFDL-ESM2M ,HadGEM2-ES,IPSL-CM5A-LR,MIROC-ESM-CHEM,NorESM1-M),7 JRC-GL(IPSL-CM5A-LR,GFDL-ESM2M,HadGEM2-ES,EC EARTH,GISS-E2-H,IPSL-CM5A-MR,HadCM3LC)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4),JRC-GL(EC-EARTH3-HR)	N/A	Table 3
River flood risk	38 European countries	Population affected, relative change (%)	1976–2005	N/A	N/A	7 JRC-EU, 5 ISIMIP, 7 JRC GL, RCP8.5, SWLs (specific warming levels)	N/A	N/A	N/A	93	N/A	N/A	93	2	N/A	350	Population affected (1000pp/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR),5 ISIMIP(GFDL-ESM2M ,HadGEM2-ES,IPSL-CM5A-LR,MIROC-ESM-CHEM,NorESM1-M),7 JRC-GL(IPSL-CM5A-LR,GFDL-ESM2M,HadGEM2-ES,EC EARTH,GISS-E2-H,IPSL-CM5A-MR,HadCM3LC)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4),JRC-GL(EC-EARTH3-HR)	N/A	Table 3

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
River flood risk	38 European countries	Population affected, relative change (%)	1976–2005	N/A	N/A	7 JRC-EU, 5 ISIMIP, 7 JRC GL, RCP8.5, SWLs (specific warming levels)	N/A	N/A	N/A	N/A	123	N/A	123	3	N/A	350	Population affected (1000pp/year)	Alfieri et al.,2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR),5 ISIMIP(GFDL-ESM2M,HadGEM2-ES,IPSL-CM5A-LR,MIROC-ESM-CHEM,NorESM1-M),7 JRC-GL(IPSL-CM5A-LR,GFDL-ESM2M,HadGEM2-ES,EC EARTH,GISS-E2-H,IPSL-CM5A-MR,HadCM3LC)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4),JRC-GL(EC-EARTH3-HR)	N/A	Table 3
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1)	1961–1990	SSP1	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	T	N/A	253	N/A	N/A	N/A	253 (83-473)	Around 1.6	Around 1.3	Population in 2050, total 8411, flood prone 847	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1)	1961–1990	SSP1	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	279	N/A	N/A	279 (77-478)	Around 2	Around 1.7	Population in 2050, total 8411, flood prone 847	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1)	1961–1990	SSP2	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	T	N/A	280	N/A	N/A	N/A	280 (93-525)	Around 1.6	Around 1.3	Population in 2050, total 9245, flood prone 931	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Increased flooding, increased river flood frequency	Global	Million people (>1000$m^3cap^{-1}yr^{-1}$)	1961–1990	SSP2	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	309	N/A	N/A	309 (84-530)	Around 2	Around 1.7	Population in 2050, total 9245, flood prone 931	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1	1961–1990	SSP3	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	T	N/A	317	N/A	N/A	N/A	317 (105-596)	Around 1.6	Around 1.3	Population in 2050, total 10233, flood prone 1041	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1)	1961–1990	SSP3	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	351	N/A	N/A	351 (93-602)	Around 2	Around 1.7	Population in 2050, total 10233, flood prone 1041	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1)	1961–1990	SSP4	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	T	N/A	268	N/A	N/A	N/A	268 (90-503)	Around 1.6	Around 1.3	Population in 2050, total 9368, flood prone 907	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1)	1961–1990	SSP4	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	297	N/A	N/A	297 (81-507)	Around 2	Around 1.7	Population in 2050, total 9368, flood prone 907	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1)	1961–1990	SSP5	0,3	Transition of RCP2.6 in 2050s, 19 CMIP5 GCMs	T	N/A	250	N/A	N/A	N/A	250 (83-468)	Around 1.6	Around 1.3	Population in 2050, total 8508, flood prone 846	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Increased flooding, increased river flood frequency	Global	Million people (>1000m3cap-1yr-1)	1961–1990	SSP5	0,3	Transition of RCP4.5 in 2050s, 19 CMIP5 GCMs	T	N/A	N/A	276	N/A	N/A	276 (77-473)	Around 2	Around 1.7	Population in 2050, total 8508, flood prone 846	Million people	Arnell and Lloyd-Hughes, 2014	CSIRO-Mk3-6-0,FIO-ESM,GFDL-CM3,GFDL-ESM2G,GFDL-ESM2M,GISS-E2-H,GISS-E2-R,HadGEM2-AO,HadGEM2-ES,IPSL-CM5A-LR,IPSL-CM5A-MR,MIROC-ESM,MIROC-ESM-CEM,MIROC5,MRI-CGCM3,NorESM1-M,NorESM1-ME,bcc-csm1-1,bcc-csm1-1-m	N/A	2070–2099	Table 2 Table 3 c) Fig.1
Monthly population exposed to extreme drought	Global	Million people	1955–2005	N/A	N/A	SPEI, 16 CMIP5, RCP8.5, 2021–2040	N/A	Y	114,3	N/A	N/A	N/A	114,3	Around 1.5	N/A	N/A	N/A	Smirnov et al., 2016	ACCESS1-0, BCC-CSM1.1, BNU-ESM, CCSM4, CESM1-CAM5, CMCC-CM, CSIRO-Mk3-6-0, EC-EARTH, FGOALS-g2, GFDL-CM3, IPSL-CM5A-MR, MIROC5, MPI-ESM-MR, MRI-CGCM3, NorESM1-M	N/A	2018–2100	Table 1
Monthly population exposed to extreme drought	Global	Million people	1955–2005	N/A	N/A	SPEI, 16 CMIP5, RCP8.5, 2041–2060	N/A	Y	N/A	190,4	N/A	N/A	190,4	Around 2	N/A	N/A	N/A	Smirnov et al., 2016	ACCESS1-0, BCC-CSM1.1, BNU-ESM, CCSM4, CESM1-CAM5, CMCC-CM, CSIRO-Mk3-6-0, EC-EARTH, FGOALS-g2, GFDL-CM3, IPSL-CM5A-MR, MIROC5, MPI-ESM-MR, MRI-CGCM3, NorESM1-M	N/A	2018–2100	Table 1
Drought	Globally	Affected total population (million)	1986–2005 (GMT), 2000 (population)	SSP1	0,6	11CMIP5, RCP4.5 (2027–2038), RCP8.5 (2029–2047), SSP1	T	Y	+132.5±216.2	N/A	N/A	N/A	+132.5±216.2	1.3-1.7	N/A	N/A	N/A	Liu et al., 2018	ACCESS1.0,BCC_CSM1.1,BNU-ESM,CanESM23,CNRM-CM5,CSIRO Mk3.6.0,GFDL CM3,INM-CM4.0,IPSL-CM5B-LR,MRI-CGCM3,MIROC-ESM	N/A	2010–2100	p274
Drought	Globally	Affected total population (million)	1986–2005 (GMT), 2000 (population)	SSP1	0,6	11CMIP5, RCP4.5 (2053–2081), RCP8.5 (2042–2053), SSP1	T	Y	N/A	+194.5±276.5	N/A	N/A	+194.5±276.5	1.8-2.2	N/A	N/A	N/A	Liu et al., 2018	ACCESS1.0,BCC_CSM1.1,BNU-ESM,CanESM23,CNRM-CM5,CSIRO Mk3.6.0,GFDL CM3,INM-CM4.0,IPSL-CM5B-LR,MRI-CGCM3,MIROC-ESM	N/A	2010–2100	p274

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Drought	Globally	Affected urban population (million)	1986–2005 (GMT), 2000 (population)	SSP1	0,6	11CMIP5, RCP4.5 (2027–2038), RCP8.5 (2029–2047), SSP1	T	Y	+350.2±158.8	N/A	N/A	N/A	+350.2±158.8	1.3-1.7	N/A	N/A	N/A	Liu et al., 2018	ACCESS1.0,BCC_CSM1.1, BNU-ESM,CanESM23,CNRM-CM5,CSIRO Mk3.6.0,GFDL CM3,INM-CM4.0,IPSL-CM5B-LR,MRI-CGCM3,MIROC-ESM	N/A	2010–2100	p274
Drought	Globally	Affected total population (million)	1986–2005 (GMT), 2000 (population)	SSP1	0,6	11CMIP5, RCP4.5 (2053–2081), RCP8.5 (2042–2053), SSP1	T	Y	N/A	+410.7±213.5	N/A	N/A	+410.7±213.5	1.8-2.2	N/A	N/A	N/A	Liu et al., 2018	ACCESS1.0,BCC_CSM1.1, BNU-ESM,CanESM23,CNRM-CM5,CSIRO Mk3.6.0,GFDL CM3,INM-CM4.0,IPSL-CM5B-LR,MRI-CGCM3,MIROC-ESM	N/A	2010–2100	p274
Drought	Globally	Affected rural population (million)	1986–2005 (GMT), 2000 (population)	SSP1	0,6	11CMIP5, RCP4.5 (2027–2038), RCP8.5 (2029–2047), SSP1	T	Y	-217.7±79.2	N/A	N/A	N/A	-217.7±79.2	1.3-1.7	N/A	N/A	N/A	Liu et al., 2018	ACCESS1.0,BCC_CSM1.1, BNU-ESM,CanESM23,CNRM-CM5,CSIRO Mk3.6.0,GFDL CM3,INM-CM4.0,IPSL-CM5B-LR,MRI-CGCM3,MIROC-ESM	N/A	2100	p274
Drought	Globally	Affected rural population (million)	1986–2005 (GMT), 2000 (population)	SSP1	0,6	11CMIP5, RCP4.5 (2053-2081), RCP8.5 (2042-2053), SSP1	T	Y	N/A	-216.2±82.4	N/A	N/A	-216.2±82.4	1.8-2.2	N/A	N/A	N/A	Liu et al., 2018	ACCESS1.0,BCC_CSM1.1, BNU-ESM,CanESM23,CNRM-CM5,CSIRO Mk3.6.0,GFDL CM3,INM-CM4.0,IPSL-CM5B-LR,MRI-CGCM3,MIROC-ESM	N/A	2100	p274
Drought	China, the Haihe River Basin (HRB)	Population exposed to drought (million)	1986–2005 (GMT), 2010 (population)	N/A	0,61	COSMO-CLM (CCLM) model, RCP2.6 (2020–2039)	N/A	N/A	236,4	N/A	N/A	N/A	236,4	1,5	N/A	339,65	Population exposure (million)	Sun et al., 2017	N/A	COSMO-CLM(CCLM)model	N/A	p79
Drought	China, the Haihe River Basin (HRB)	Population exposed to drought (million)	1986–2005 (GMT), 2010 (population)	N/A	0,61	COSMO-CLM (CCLM) model, RCP4.5 (2040–2059)	N/A	N/A	N/A	593,6	N/A	N/A	593,6	2	N/A	339,65	Population exposure (million)	Sun et al., 2017	N/A	COSMO-CLM(CCLM)model	N/A	p79
River flood risk	28 European countries	Expected damage (B€/year)	1976–2005	N/A	N/A	7 JRC-EU, RCP8.5, SWLs (specific warming levels)	N/A	N/A	11	N/A	N/A	N/A	11	1,5	N/A	5	Expected damage (B€/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4)	N/A	Table 2
River flood risk	28 European countries	Expected damage (B€/year)	1976–2005	N/A	N/A	7 JRC-EU, RCP8.5, SWLs (specific warming levels)	N/A	N/A	N/A	13	N/A	N/A	13	2	N/A	5	Expected damage (B€/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4)	N/A	Table 2
River flood risk	28 European countries	Expected damage (B€/year)	1976–2005	N/A	N/A	7 JRC-EU, RCP8.5, SWLs (specific warming levels)	N/A	N/A	N/A	N/A	14	N/A	14	3	N/A	5	Expected damage (B€/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4)	N/A	Table 2
River flood risk	28 European countries	Expected damage, relative change (%)	1976–2005	N/A	N/A	7 JRC-EU, RCP8.5, SWLs (specific warming levels)	N/A	N/A	116	N/A	N/A	N/A	116	1,5	N/A	5	Expected damage (B€/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4)	N/A	Table 2
River flood risk	28 European countries	Expected damage, relative change (%)	1976–2005	N/A	N/A	7 JRC-EU, RCP8.5, SWLs (specific warming levels)	N/A	N/A	N/A	137	N/A	N/A	137	2	N/A	5	Expected damage (B€/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4)	N/A	Table 2
River flood risk	28 European countries	Expected damage, relative change (%)	1976–2005	N/A	N/A	7 JRC-EU, RCP8.5, SWLs (specific warming levels)	N/A	N/A	N/A	N/A	173	N/A	173	3	N/A	5	Expected damage (B€/year)	Alfieri et al., 2018	3 JRC-EU(EC-EARTH,HadGEM2-ES,MPI-ESM-LR)	4 JRC-EU(RACMO22E,REMO2009,CCLM4-8-17,RCA4)	N/A	Table 2
Groundwater resources	Global	%	1971–2000	N/A	0,4	5 GCMs, RCP8.5, 2070–2099	T	N/A	N/A	2 (1.1-2.6)	N/A	N/A	2 (1.1-2.6)	2	N/A	N/A	N/A	Portmann et al., 2013	HadGEM2-ES,IPSL-CM5A LR,MIROC-ESM-CHEM,GFDL-ESM2M,NorESM1-M	N/A	2070–2099	Fig.5a, p7
Groundwater resources	Global	%	1971–2000	N/A	0,4	5 GCMs, RCP8.5, 2070–2099	T	N/A	N/A	N/A	3 (1.5-5.3)	N/A	3 (1.5-5.3)	3	N/A	N/A	N/A	Portmann et al., 2013	HadGEM2-ES,IPSL-CM5A LR,MIROC-ESM-CHEM,GFDL-ESM2M,NorESM1-M	N/A	2070–2099	Fig.5a, p7
Groundwater resources	Global	%	1971–2000	N/A	0,4	3 GCMs, RCP8.5, 2070–2099	T	N/A	N/A	N/A	N/A	3.4 (1.9-4.8)	3.4 (1.9-4.8)	4	N/A	N/A	N/A	Portmann et al., 2013	HadGEM2-ES,IPSL-CM5A LR,MIROC-ESM-CHEM,	N/A	2070–2099	Fig.5a, p7
Groundwater level	Northwest Bangladesh	m	1991–2009	N/A	N/A	MLR	N/A	Y	N/A	N/A	N/A	N/A	-0,15	N/A	1	N/A	N/A	Salem et al., 2017	N/A	N/A	N/A	Fig.5,p89
Groundwater level	Northwest Bangladesh	m	1991–2009	N/A	N/A	MLR	N/A	Y	N/A	N/A	N/A	N/A	-2,01	N/A	5	N/A	N/A	Salem et al., 2017	N/A	N/A	N/A	Fig.5,p89
Chloride concentration	Lake Ijsselmeer, the Netherlands	mg/L	1997–2007 (climate change scenarios), 2007–2008 (reference scenarios), 1990 (temperature)	N/A	N/A	KNMI scenario G, 2050	N/A	Y	N/A	N/A	N/A	N/A	105 (79,177)	N/A	+1 (since1990)	105（81,158）	mg/L	Bonte and Zwolsman, 2010	N/A	N/A	2050	Table 4, p4416
Chloride concentration	Lake Ijsselmeer, the Netherlands	mg/L	1997–2007 (climate change scenarios), 2007–2008 (reference scenarios), 1990 (temperature)	N/A	N/A	KNMI scenario W+, 2050	N/A	Y	N/A	N/A	N/A	N/A	121 (77,267)	N/A	+2 (since1990)	105（81,158）	mg/L	Bonte and Zwolsman, 2010	N/A	N/A	2050	Table 4, p4416
The daily probability of exceeding the chloride standard for drinking water	Lake Ijsselmeer, the Netherlands	%	1997–2007 (climate change scenarios), 2007–2008 (reference scenarios), 1990 (temperature)	N/A	N/A	KNMI scenario G, 2050	N/A	Y	N/A	N/A	N/A	N/A	3,1	N/A	+1 (since1990)	2,5	%	Bonte and Zwolsman, 2010	N/A	N/A	2050	Table 5, p4422

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
The daily probability of exceeding the chloride standard for drinking water	Lake Ijsselmeer, the Netherlands	%	1997–2007 (climate change scenarios), 2007–2008 (reference scenarios), 1990 (temperature)	N/A	N/A	KNMI scenario W+, 2050	N/A	Y	N/A	N/A	N/A	N/A	14,3	N/A	+2 (since1990)	2,5	%	Bonte and Zwolsman, 2010	N/A	N/A	2050	Table 5, p4422
The maximum duration of the exceedance	Lake Ijsselmeer, the Netherlands	Days	1997–2007 (climate change scenarios), 2007–2008 (reference scenarios), 1990 (temperature)	N/A	N/A	KNMI scenario G, 2050	N/A	Y	N/A	N/A	N/A	N/A	124	N/A	+1 (since1990)	103	Days	Bonte and Zwolsman, 2010	N/A	N/A	2050	Table 5, p4422
The maximum duration of the exceedance	Lake Ijsselmeer, the Netherlands	Days	1997–2007 (climate change scenarios), 2007–2008 (reference scenarios), 1990 (temperature)	N/A	N/A	KNMI scenario W+, 2050	N/A	Y	N/A	N/A	N/A	N/A	178	N/A	+2 (since1990)	103	Days	Bonte and Zwolsman, 2010	N/A	N/A	2050	Table 5, p4422
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in nitrogen (N) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP4.5, 2015–2039 (2030s), SWAT	N/A	N/A	7,3	N/A	N/A	N/A	7,3	Around 1.5	0,89	1 249 564	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 11
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in nitrogen (N) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP8.5, 2015–2039 (2030s), SWAT	N/A	N/A	N/A	-6,6	N/A	N/A	-6,6	Around 2	1,05	1 249 564	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 11
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in nitrogen (N) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP4.5, 2015–2039 (2030s), SWAT, FG1	N/A	N/A	5,2	N/A	N/A	N/A	5,2	Around 1.5	0,89	1 249 564	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 11
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in nitrogen (N) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP8.5, 2015–2039 (2030s), SWAT, FG1	N/A	N/A	N/A	8,8	N/A	N/A	8,8	Around 2	1,05	1 249 564	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 11
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in nitrogen (N) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP4.5, 2015–2039 (2030s), SWAT, FA1	N/A	N/A	7,5	N/A	N/A	N/A	7,5	Around 1.5	0,89	1 249 564	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 11
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in nitrogen (N) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP8.5, 2015–2039 (2030s), SWAT, FA1	N/A	N/A	N/A	3,7	N/A	N/A	3,7	Around 2	1,05	1 249 564	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 11
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in phosphorus (P) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP4.5, 2015–2039 (2030s), SWAT	N/A	N/A	5,1	N/A	N/A	N/A	5,1	Around 1.5	0,89	459 134	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 12
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in phosphorus (P) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP8.5, 2015–2039 (2030s), SWAT	N/A	N/A	N/A	-3,6	N/A	N/A	-3,6	Around 2	1,05	459 134	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 12
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in phosphorus (P) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP4.5, 2015–2039 (2030s), SWAT, FG1	N/A	N/A	12,6	N/A	N/A	N/A	12,6	Around 1.5	0,89	459 134	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 12

Risk	Region	Metric (Unit)	Baseline Time Period against Which Change Measured	Socio-economic Scenario and Date	Baseline Global T above Pre-industrial	Climate Scenario Used	Transient (T) or Equilibrium (E)	Dynamic Model?	Projected Impact at 1.5°C above Pre-Industrial	2°C	3°C	4°C	Projected Impact at Delta T(°C)	Delta T Relative to Pre-Industrial	Delta T Relative to Baseline Temperature	Projected Impact (Reference Value)	Projected Impact (Unit)	Reference	GCM (e.g., MIROC5)	RCM	Future Period	Cited Part
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in phosphorus (P) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP8.5, 2015–2039 (2030s), SWAT, FG1	N/A	N/A	N/A	11,7	N/A	N/A	11,7	Around 2	1,05	459 134	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 12
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in phosphorus (P) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP4.5, 2015–2039 (2030s), SWAT, FA1	N/A	N/A	14,9	N/A	N/A	N/A	14,9	Around 1.5	0,89	459 134	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 12
Water quality (nutrient yield)	Southeast Asia (Cambodia, Laos, Vietnam) 3S River Basin (Sekong, Srepok, Sesan)	Change in phosphorus (P) yield (%), annual	1981–2008 (air temperatures), 2004–2008 (water quality)	N/A	N/A	5 GCM, RCP8.5, 2015–2039 (2030s), SWAT, FA1	N/A	N/A	N/A	8,8	N/A	N/A	8,8	Around 2	1,05	459 134	Tons	Trang et al., 2017	HadGEM2-AO, CanESM2, IPSL-CM5A-LR, CNRM-CM5, and MPI ESM-MR	N/A	2030s (2015–2039), 2060s (2045–2069), 2090s (2075–2099)	Table 12