

## **AR6 WGI Report – List of corrigenda to be implemented**

The corrigenda listed below will be implemented in the Supp. Material during copy-editing.

### **ATLAS SUPPLEMENTARY MATERIAL**

<b>Document (Chapter, Annex, Supp. Mat...)</b>	<b>Section</b>	<b>Page :Line (based on the final pdf FGD version)</b>	<b>Detailed info on correction to make</b>
Atlas SM	Table Atlas.SM.7	Atlas.SM.11	Remove row 42 of the table "42   EUR-11   CNRM-CM5_r1i1p1   HadREM3 ... " and rename the column numbers below (43 to 42, ..., 51 to 50).
Atlas SM			Update the Data Table with omitted data citations for climate model data.

## 1                   Atlas Supplementary Material

### 2

### 3

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11 B. Klutse, S. Krakovska, J. Li, D. Martínez-Castro, L. O. Mearns, S. H. Mernild, T. Ngo-Duc, B. van den  
12 Hurk, J-H. Yoon, 2021, Atlas Supplementary Material. In: *Climate Change 2021: The Physical Science*  
13 *Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on*  
14 *Climate Change* [Masson-Delmotte, V., P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y.  
15 Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T.  
16 Waterfield, O. Yelekçi, R. Yu and B. Zhou (eds.)]. Available from <https://ipcc.ch/static/ar6/wg1>.

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19 **Date:** August 2021  
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21 **This document is subject to copy-editing, corrigenda and trickle backs.**

**1 Table of Contents**

2

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5	<b>Atlas.SM.3</b>	<b>Data Table .....</b>
6	<b>References</b>	<b>.....</b>
7		

ACCEPTED VERSION  
SUBJECT TO FINAL EDITING

1   **Atlas.SM.1      Tables of global (CMIP) and regional (CORDEX) models used in the Atlas chapter**

2  
 3   The following tables present the global and regional models and the specific variables used in the Atlas  
 4   chapter (and in the Interactive Atlas) from the ensembles of CMIP5, CMIP6 and CORDEX historical and  
 5   scenario simulations. Detailed information and salient features of these models are described in IPCC AR5  
 6   Appendix 9.A (for CMIP5), and Annexes AII.2 (Table AII.5) and AII.1 (Tables AII.1 to AII.4) for CMIP6  
 7   and CORDEX, respectively.

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 9   **[START TABLE ATLAS.SM.1 HERE]**

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 11   **Table Atlas.SM.1:** The CMIP5 models used in the Atlas for each of the historical and RCP scenario experiments.  
 12   Salient features of these models are described in IPCC AR5 Appendix 9.A (model names are  
 13   taken from Table 9.A.1). The first two columns indicate the model and the particular run used.  
 14   Columns 4–7 indicate the availability of the different variables used in the Atlas. P: precipitation  
 15   (pr); T: temperature (tas); X: tasmin and tasmax. A blank space indicates lack of data, usually  
 16   because that scenario run was not available. P, T and X correspond to the *atmosphere* realm and  
 17   daily frequency. Further details (including the specific ESGF versions used) are given in the Atlas  
 18   GitHub repository (Iturbide et al., 2021).

#	Model	Run	Hist	RCP2.6	RCP4.5	RCP8.5
1	ACCESS1-0	r1i1p1	PTX		PTX	PTX
2	ACCESS1-3	r1i1p1	PTX		PTX	PTX
3	bcc-csm1-1	r1i1p1	PTX	PTX	PTX	PTX
4	bcc-csm1-1-m	r1i1p1	PTX	PTX	PTX	PTX
5	BNU-ESM	r1i1p1	PTX	PTX	PTX	PTX
6	CanESM2	r1i1p1	PTX	PTX	PTX	PTX
7	CCSM4	r1i1p1	PTX	PTX	PTX	PTX
8	CESM1-BGC	r1i1p1	PTX		PTX	PTX
9	CMCC-CM	r1i1p1	PTX		PTX	PTX
10	CMCC-CMS	r1i1p1	PTX		PTX	PTX
11	CNRM-CM5	r1i1p1	PTX	PTX	PTX	PTX
12	CSIRO-Mk3-6-0	r1i1p1	PTX	PTX	PTX	PTX
13	EC-EARTH	r12i1p1	PTX	PTX	PTX	PTX
14	GFDL-CM3	r1i1p1	PTX	PTX		PTX
15	GFDL-ESM2G	r1i1p1	PTX	PTX	PTX	PTX
16	GFDL-ESM2M	r1i1p1	PTX	PTX	PTX	PTX
17	HadGEM2-CC	r1i1p1	PTX		PTX	PTX
18	HadGEM2-ES	r1i1p1	PTX	PTX	PTX	PTX
19	inmcm4	r1i1p1	PTX		PTX	PTX
20	IPSL-CM5A-LR	r1i1p1	PTX	PTX	PTX	PTX
21	IPSL-CM5A-MR	r1i1p1	PTX	PTX	PTX	PTX
22	IPSL-CM5B-LR	r1i1p1	PTX		PTX	PTX
23	MIROC-ESM	r1i1p1	PTX	PTX	PTX	PTX
24	MIROC-ESM-CHEM	r1i1p1	PTX	PTX	PTX	PTX
25	MIROC5	r1i1p1	PTX	PTX	PTX	PTX
26	MPI-ESM-LR	r1i1p1	PTX	PTX	PTX	PTX
27	MPI-ESM-MR	r1i1p1	PTX	PTX	PTX	PTX
28	MRI-CGCM3	r1i1p1	PTX	PTX	PTX	PTX
29	NorESM1-M	r1i1p1	PTX	PTX	PTX	PTX

21   **[END TABLE ATLAS.SM.1 HERE]**

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2 [START TABLE ATLAS.SM.2 HERE]  
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4 **Table Atlas.SM.2:** The CMIP6 models used in the Atlas for each of the historical and SSP scenario experiments,  
5 and for the PMIP experiment. Salient features of these models are described in Table AII.5. The  
6 first two columns indicate the model and the particular run used. Columns 3–7 indicate the  
7 availability of the different variables from historical and scenario experiments used in the Atlas.  
8 P: precipitation (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind), S: snow  
9 (prsn); I: sea-ice area fraction (siconc); O: sea-surface temperature (tos); H: pH (ph). A blank  
10 space indicates lack of data, usually because that scenario run was not available. P, T, X, W and  
11 S correspond to the *atmosphere* realm; I, O and H correspond to the *sea* realm. Daily frequency  
12 has been used for P, T and X (to compute the derived indices, see Atlas.2.3), whereas monthly  
13 frequency is used for the others. The last column indicates the availability of data (precipitation  
14 and temperature) from the particular periods of the PMIP experiment used in the Interactive  
15 Atlas: piControl (c), midPliocene-eoi400 (p), midHolocene (h), lig127k (i), lgm (g); see Cross-  
16 Chapter Box 2.1 for details. Further details (including the specific ESGF versions used) are  
17 given in the Atlas GitHub repository (Iturbide et al., 2021). Note: Run r1i1p1f1 for CESM2 in  
18 PMIP.  
19

#	Model	Run	Hist	SSP1.26	SSP2.45	SSP3.7	SSP5.85	PMIP
1	ACCESS-CM2	r1i1p1f1	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	
2	ACCESS-ESM1-5	r1i1p1f1	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	ci
3	AWI-CM-1-1-MR	r1i1p1f1	TXSWO	TXSWO	TXSWO	TXSWO	TXSWO	
4	BCC-CSM2-MR	r1i1p1f1	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	
5	CAMS-CSM1-0	r2i1p1f1	PTWIO	PTWIO	PTWIO	PTWIO	PTWIO	
6	CanESM5	r1i1p1f1	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	
7	CESM2	r4i1p1f1	PTSIH	PTSIH	PTSIH	PTSIH	PTSIH	cphi
8	CESM2-WACCM	r1i1p1f1	PTWIOH	PTWIOH	PTWIOH	PTWIOH	PTWIOH	
9	CMCC-CM2-SR5	r1i1p1f1	PTSWIO	PTSWIO	PTSWIO	PTSWIO	PTSWIO	
10	CNRM-CM6-1	r1i1p1f2	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	ci
11	CNRM-CM6-1-HR	r1i1p1f2	PTXSWIO	PTXSWIO	TSWIO	TSWIO	PTXSWIO	
12	CNRM-ESM2-1	r1i1p1f2	PTXSWIOH	PTXSWOH	PTXSWIOH	PTXSWOH	PTXSWOH	
13	EC-Earth3	r1i1p1f1	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	
14	EC-Earth3-Veg	r1i1p1f1	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	
15	EC-Earth3-Veg-LR	r1i1p1f1	PTXSWIO		PTXSWIO	PTXSWIO		chi
16	FGOALS-g3	r1i1p1f1	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	chi
17	GFDL-CM4	r1i1p1f1	PTXSWIO		PTXSWIO		PTXSWIO	
18	GFDL-ESM4	r1i1p1f1	PTXSWO	PTXSO	PTXSWO	PTXSO	PTXSWO	
19	HadGEM3-GC31-LL	r1i1p1f3	PTXSWIO	PTXSWIO	PTXSWIO		PTXSWIO	cphi
20	IITM-ESM	r1i1p1f1	PTO	PTO	PTO	PTO	PTO	
21	INM-CM4-8	r1i1p1f1	PTXSW	PTXSW	PTXSW	PTXSW	PTXSW	chig
22	INM-CM5-0	r1i1p1f1	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	PTXSWIO	
23	IPSL-CM6A-LR	r1i1p1f1	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	cphi
24	KACE-1-0-G	r2i1p1f1	PTXSW	PTXSW	PTXSW	PTXSW	PTXSW	
25	KIOST-ESM	r1i1p1f1	PTXWIO	PTXWIO	PTXWIO		PTXWIO	
26	MIROC-ES2L	r1i1p1f2	PTXSWIH	PTXSWIH	PTXSWIH	PTXSWIH	PTXSWIH	chig
27	MIROC6	r1i1p1f1	PTXSWI	PTXSWI	PTXSWI	PTXSWI	PTXSWI	
28	MPI-ESM1-2-HR	r1i1p1f1	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	
29	MPI-ESM1-2-LR	r1i1p1f1	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	chg
30	MRI-ESM2-0	r1i1p1f1	PTXSWI	PTXSWI	PTXSWI	PTXSWI	PTXSWI	ch
31	NESM3	r1i1p1f1	PTXSO	PTXSO	PTXSO		PTXSO	chi
32	NorESM2-LM	r1i1p1f1	PTSWIOH	PTSWIOH	PTSWIOH	PTSWIOH	PTSWIOH	chi
33	NorESM2-MM	r1i1p1f1	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	
34	TaiESM1	r1i1p1f1	PTSW				PTSW	

				PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	
35	UKESM1-0-LL	r1i1p1f2		PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	PTXSWIOH	cig
36	AWI-ESM-1-1-LR	r1i1p1f1							chi
37	FGOALS-f3-L	r1i1p1f1							cphi
38	GISS-E2-1-G	r1i1p1f1							cphi
39	NorESM1-F	r1i1p1f1							cphi

1 [END TABLE ATLAS.SM.2 HERE]

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4 [START TABLE ATLAS.SM.3 HERE]5  
6  
7 **Table Atlas.SM.3:** Regional simulations from the CORDEX South America (SAM) domain (Figure Atlas.6) used in  
8 the Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
9 resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
10 AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
11 the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
12 (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
13 lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
14 GitHub repository (Iturbide et al., 2021).  
15

#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	SAM-22	HadGEM2-ES_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
2	SAM-22	MPI-ESM-LR_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
3	SAM-22	NorESM1-M_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
4	SAM-22	HadGEM2-ES_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
5	SAM-22	MPI-ESM-MR_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
6	SAM-22	NorESM1-M_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
7	SAM-44	HadGEM2-ES_r1i1p1	RegCM4-3_v4	PTXW		PTXW	PTXW
8	SAM-44	MPI-ESM-LR_r1i1p1	REMO2009_v1	PTXW	PTXW	PTXW	PTXW
9	SAM-44	CSIRO-Mk3-6-0_r1i1p1	RCA4_v3	PTXW		PTXW	PTXW
10	SAM-44	CanESM2_r1i1p1	RCA4_v3	PTXW		PTXW	PTXW
11	SAM-44	EC-EARTH_r12i1p1	RCA4_v3	PTXW	PTXW	PTXW	PTXW
12	SAM-44	IPSL-CM5A-MR_r1i1p1	RCA4_v3	PTXW		PTXW	PTXW
13	SAM-44	MIROC5_r1i1p1	RCA4_v3	PTXW	PTXW	PTXW	PTXW
14	SAM-44	HadGEM2-ES_r1i1p1	RCA4_v3	PTXW	PTXW	PTXW	PTXW
15	SAM-44	MPI-ESM-LR_r1i1p1	RCA4_v3	PTXW	PTXW	PTXW	PTXW
16	SAM-44	NorESM1-M_r1i1p1	RCA4_v3	PTXW	PTXW	PTXW	PTXW
17	SAM-44	GFDL-ESM2M_r1i1p1	RCA4_v3	PTXW		PTXW	PTXW
18	SAM-44	CanESM2_r1i1p1	WRF341I_v2	PTXW		PTXW	PTXW

16 [END TABLE ATLAS.SM.3 HERE]

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## 1 [START TABLE ATLAS.SM.4 HERE]

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 3 **Table Atlas.SM.4:** Regional simulations from the CORDEX Central America (CAM) domain (Figure Atlas.6) used  
 4 in the Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
 5 resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
 6 AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
 7 the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
 8 (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
 9 lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
 10 GitHub repository (Iturbide et al., 2021).

#	Domain	GCM_run	RCM	Historical	RCP2.6	RCP4.5	RCP8.5
1	CAM-22	HadGEM2-ES_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
2	CAM-22	MPI-ESM-LR_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
3	CAM-22	NorESM1-M_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
4	CAM-22	HadGEM2-ES_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
5	CAM-22	MPI-ESM-MR_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
6	CAM-22	GFDL-ESM2M_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
7	CAM-22	GFDL-ESM2M_r1i1p1	CRCM5_v1	PTXW			PTXW
8	CAM-44	HadGEM2-ES_r1i1p1	RegCM4-3_v4	PTXW			PTXW
9	CAM-44	MPI-ESM-MR_r1i1p1	RegCM4-3_v4	PTXW			PTXW
10	CAM-44	CanESM2_r1i1p1	RCA4_v1	PTXW			PTXW
11	CAM-44	CNRM-CM5_r1i1p1	RCA4_v1	PTXW			PTXW
12	CAM-44	CSIRO-Mk3-6-0_r1i1p1	RCA4_v1	PTXW			PTXW
13	CAM-44	EC-EARTH_r12i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
14	CAM-44	IPSL-CM5A-MR_r1i1p1	RCA4_v1	PTXW			PTXW
15	CAM-44	MIROC5_r1i1p1	RCA4_v1	PTXW	PTXW		PTXW
16	CAM-44	HadGEM2-ES_r1i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
17	CAM-44	MPI-ESM-LR_r1i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
18	CAM-44	NorESM1-M_r1i1p1	RCA4_v1	PTXW	PTXW		PTXW
19	CAM-44	GFDL-ESM2M_r1i1p1	RCA4_v1	PTXW			PTXW
20	CAM-22	CNRM-CM5_r1i1p1	CRCM5_v1	PTXW			PTXW
21	CAM-22	CanESM2_r1i1p1	CRCM5_v1	PTXW			PTXW

## 12 [END TABLE ATLAS.SM.4 HERE]

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## 1 [START TABLE ATLAS.SM.5 HERE]

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 3 **Table Atlas.SM.5:** Regional simulations from the CORDEX North America (NAM) domain (Figure Atlas.6) used  
 4 in the Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
 5 resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
 6 AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
 7 the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
 8 (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
 9 lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
 10 GitHub repository (Iturbide et al., 2021).

#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	NAM-22	HadGEM2-ES_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
2	NAM-22	MPI-ESM-LR_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
3	NAM-22	NorESM1-M_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
4	NAM-22	CanESM2_r1i1p1	CRCM5_v1	PTXW		PTXW	PTXW
5	NAM-22	CNRM-CM5_r1i1p1	CRCM5_v1	PTXW		PTXW	PTXW
6	NAM-22	MPI-ESM-LR_r1i1p1	CRCM5_v1	PTXW		PTXW	PTXW
7	NAM-22	GFDL-ESM2M_r1i1p1	CRCM5_v1	PTXW		PTXW	PTXW
8	NAM-44	EC-EARTH_r3i1p1	HIRHAM5_v1	PTXW		PTXW	PTXW
9	NAM-44	CanESM2_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
10	NAM-44	EC-EARTH_r12i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
11	NAM-22	CanESM2_r1i1p1	CanRCM4_r2	PTXW		PTXW	PTXW
12	NAM-22	MPI-ESM-MR_r1i1p1	CRCM5_v1	PTXW			PTXW
13	NAM-22	ESM2M_r1i1p1	RegCM4_v4-4-rc8	PTXW			PTXW
14	NAM-22	HadGEM2-ES_r1i1p1	RegCM4_v4-4-rc8	PTXW			PTXW
15	NAM-22	MPI-ESM-LR_r1i1p1	RegCM4_v4-4-rc8	PTXW			PTXW
16	NAM-22	GFDL-ESM2M_r1i1p1	WRF_v3-5-1	PTXW			PTXW
17	NAM-22	HadGEM2-ES_r1i1p1	WRF_v3-5-1	PTXW			PTXW
18	NAM-22	MPI-ESM-LR_r1i1p1	WRF_v3-5-1	PTXW			PTXW
19	NAM-22	MPI-ESM-LR_r1i1p1	CRCM5_v1	PTXW		PTXW	PTXW
20	NAM-22	CanESM2_r1i1p1	CRCM5_v1	PTXW		PTXW	PTXW

## 12 [END TABLE ATLAS.SM.5 HERE]

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## 1 [START TABLE ATLAS.SM.6 HERE]

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 3 **Table Atlas.SM.6:** Regional simulations from the CORDEX Africa (AFR) domain (Figure Atlas.6) used in the  
 4 Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
 5 resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
 6 AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
 7 the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
 8 (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
 9 lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
 10 GitHub repository (Iturbide et al., 2021).

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#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	AFR-22	HadGEM2-ES_r1i1p1	CCLM5-0-15_v1	PTXW	PTXW		PTXW
2	AFR-22	MPI-ESM-LR_r1i1p1	CCLM5-0-15_v1	PTXW	PTXW		PTXW
3	AFR-22	NorESM1-M_r1i1p1	CCLM5-0-15_v1	PTXW	PTXW		PTXW
4	AFR-22	HadGEM2-ES_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
5	AFR-22	MPI-ESM-LR_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
6	AFR-22	NorESM1-M_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
7	AFR-22	HadGEM2-ES_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
8	AFR-22	MPI-ESM-MR_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
9	AFR-22	NorESM1-M_r1i1p1	RegCM4-7_v0	PTXW	PTXW		PTXW
10	AFR-44	CNRM-CM5_r1i1p1	CCLM4-8-17_v1	PTXW		PTXW	PTXW
11	AFR-44	EC-EARTH_r12i1p1	CCLM4-8-17_v1	PTXW		PTXW	PTXW
12	AFR-44	HadGEM2-ES_r1i1p1	CCLM4-8-17_v1	PTXW		PTXW	PTXW
13	AFR-44	MPI-ESM-LR_r1i1p1	CCLM4-8-17_v1	PTXW		PTXW	PTXW
14	AFR-44	EC-EARTH_r3i1p1	HIRHAM5_v2	PTXW		PTXW	PTXW
15	AFR-44	IPSL-CM5A-LR_r1i1p1	REMO2009_v1	PTXW	PTXW		PTXW
16	AFR-44	MIROC5_r1i1p1	REMO2009_v1	PTXW	PTXW		PTXW
17	AFR-44	HadGEM2-ES_r1i1p1	REMO2009_v1	PTXW	PTXW		PTXW
18	AFR-44	HadGEM2-ES_r1i1p1	RACMO22T_v2	PTXW	PTXW	PTXW	PTXW
19	AFR-44	EC-EARTH_r12i1p1	REMO2009_v1	PTXW	PTXW	PTXW	PTXW
20	AFR-44	MPI-ESM-LR_r1i1p1	REMO2009_v1	PTXW	PTXW	PTXW	PTXW
21	AFR-44	CanESM2_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
22	AFR-44	CNRM-CM5_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
23	AFR-44	CSIRO-Mk3-6-0_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
24	AFR-44	EC-EARTH_r12i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
25	AFR-44	IPSL-CM5A-MR_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
26	AFR-44	MIROC5_r1i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
27	AFR-44	HadGEM2-ES_r1i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
28	AFR-44	MPI-ESM-LR_r1i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
29	AFR-44	NorESM1-M_r1i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
30	AFR-44	GFDL-ESM2M_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
31	AFR-22	CanESM2_r1i1p1	CanRCM4_r2	PTXW		PTXW	PTXW
32	AFR-44	GFDL-ESM2G_r1i1p1	REMO2009_v1	PTXW	PTXW		
33	AFR-44	EC-EARTH_r12i1p1	RACMO22T_v1	PTXW	PTXW		

34	AFR-44	CanESM2_r1i1p1	CRCM5_v1	<b>PTXW</b>		<b>PTXW</b>	
35	AFR-44	MPI-ESM-LR_r1i1p1	CRCM5_v1	<b>PTXW</b>		<b>PTXW</b>	

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2 [END TABLE ATLAS.SM.6 HERE]  
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5 [START TABLE ATLAS.SM.7 HERE]

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7 **Table Atlas.SM.7:** Regional simulations from the CORDEX Europe (EUR) domain (Figure Atlas.6) used in the  
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resolutions. Columns 2–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
(pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
GitHub repository (Iturbide et al., 2021).

#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	EUR-11	EC-EARTH_r12i1p1	COSMO-crCLIM-v1-1_v1	<b>PTXW</b>			<b>PTXW</b>
2	EUR-11	HadGEM2-ES_r1i1p1	COSMO-crCLIM-v1-1_v1	<b>PTXW</b>			<b>PTXW</b>
3	EUR-11	MPI-ESM-LR_r1i1p1	COSMO-crCLIM-v1-1_v1	<b>PTXW</b>			<b>PTXW</b>
4	EUR-11	NorESM1-M_r1i1p1	COSMO-crCLIM-v1-1_v1	<b>PTXW</b>			<b>PTXW</b>
5	EUR-11	CNRM-CM5_r1i1p1	CCLM4-8-17_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
6	EUR-11	EC-EARTH_r12i1p1	CCLM4-8-17_v1	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
7	EUR-11	HadGEM2-ES_r1i1p1	CCLM4-8-17_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
8	EUR-11	MPI-ESM-LR_r1i1p1	CCLM4-8-17_v1	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
9	EUR-11	CNRM-CM5_r1i1p1	ALADIN63_v2	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
10	EUR-11	HadGEM2-ES_r1i1p1	ALADIN63_v1	<b>PTXW</b>			<b>PTXW</b>
11	EUR-11	MPI-ESM-LR_r1i1p1	ALADIN63_v1	<b>PTXW</b>			<b>PTXW</b>
12	EUR-11	NorESM1-M_r1i1p1	ALADIN63_v1	<b>PTXW</b>			<b>PTXW</b>
13	EUR-11	CNRM-CM5_r1i1p1	HIRHAM5_v2	<b>PTXW</b>			<b>PTXW</b>
14	EUR-11	EC-EARTH_r12i1p1	HIRHAM5_v1	<b>PTXW</b>			<b>PTXW</b>
15	EUR-11	EC-EARTH_r3i1p1	HIRHAM5_v2	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
16	EUR-11	HadGEM2-ES_r1i1p1	HIRHAM5_v2	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
17	EUR-11	MPI-ESM-LR_r1i1p1	HIRHAM5_v1	<b>PTXW</b>			<b>PTXW</b>
18	EUR-11	IPSL-CM5A-MR_r1i1p1	HIRHAM5_v1	<b>PTXW</b>			<b>PTXW</b>
19	EUR-11	NorESM1-M_r1i1p1	HIRHAM5_v3	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
20	EUR-11	IPSL-CM5A-MR_r1i1p1	REMO2015_v1	<b>PTXW</b>			<b>PTXW</b>
21	EUR-11	MPI-ESM-LR_r3i1p1	REMO2015_v1	<b>PTXW</b>			<b>PTXW</b>
22	EUR-11	NorESM1-M_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
23	EUR-11	CNRM-CM5_r1i1p1	REMO2015_v2	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
24	EUR-11	HadGEM2-ES_r1i1p1	RegCM4-6_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
25	EUR-11	MPI-ESM-LR_r1i1p1	RegCM4-6_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
26	EUR-11	EC-EARTH_r12i1p1	RegCM4-6_v1	<b>PTXW</b>			<b>PTXW</b>
27	EUR-11	CNRM-CM5_r1i1p1	WRF381P_v2	<b>PTXW</b>			<b>PTXW</b>
28	EUR-11	IPSL-CM5A-MR_r1i1p1	WRF381P_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>

29	EUR-11	HadGEM2-ES_r1i1p1	WRF381P_v1	PTXW			PTXW
30	EUR-11	NorESM1-M_r1i1p1	WRF381P_v1	PTXW			PTXW
31	EUR-11	EC-EARTH_r12i1p1	WRF381P_v1	PTXW			PTXW
32	EUR-11	CNRM-CM5_r1i1p1	RACMO22E_v2	PTXW	PTXW	PTXW	PTXW
33	EUR-11	EC-EARTH_r12i1p1	RACMO22E_v1	PTXW	PTXW	PTXW	PTXW
34	EUR-11	IPSL-CM5A-MR_r1i1p1	RACMO22E_v1	PTXW			PTXW
35	EUR-11	HadGEM2-ES_r1i1p1	RACMO22E_v2	PTXW	PTXW	PTXW	PTXW
36	EUR-11	MPI-ESM-LR_r1i1p1	RACMO22E_v1	PTXW	PTXW		PTXW
37	EUR-11	NorESM1-M_r1i1p1	RACMO22E_v1	PTXW	PTXW		PTXW
38	EUR-11	EC-EARTH_r12i1p1	HadREM3-GA7-05_v1	PTXW			PTXW
39	EUR-11	HadGEM2-ES_r1i1p1	HadREM3-GA7-05_v1	PTXW			PTXW
40	EUR-11	MPI-ESM-LR_r1i1p1	HadREM3-GA7-05_v1	PTXW			PTXW
41	EUR-11	NorESM1-M_r1i1p1	HadREM3-GA7-05_v1	PTXW			PTXW
42	EUR-11	CNRM-CM5_r1i1p1	HadREM3-GA7-05_v2	PTXW			PTXW
43	EUR-11	MPI-ESM-LR_r1i1p1	REMO2009_v1	PTXW	PTXW	PTXW	PTXW
44	EUR-11	CNRM-CM5_r1i1p1	ALARO-0_v1	PTXW	PTXW	PTXW	PTXW
45	EUR-11	CNRM-CM5_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
46	EUR-11	EC-EARTH_r12i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
47	EUR-11	IPSL-CM5A-MR_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
48	EUR-11	HadGEM2-ES_r1i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
49	EUR-11	MPI-ESM-LR_r1i1p1	RCA4_v1a	PTXW	PTXW	PTXW	PTXW
50	EUR-11	MPI-ESM-LR_r2i1p1	RCA4_v1	PTXW			PTXW
51	EUR-11	NorESM1-M_r1i1p1	RCA4_v1	PTXW	PTXW		PTXW

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2 [END TABLE ATLAS.SM.7 HERE]  
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6 [START TABLE ATLAS.SM.8 HERE]  
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8 **Table Atlas.SM.8:** Regional simulations from the CORDEX South Asia (WAS) domain (Figure Atlas.6) used in the  
9     Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
10     resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
11     AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
12     the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
13     (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
14     lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
15     GitHub repository (Iturbide et al., 2021).  
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#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	WAS-22	EC-EARTH_r12i1p1	COSMO-crCLIM-v1-1_v1	PTXW			PTXW
2	WAS-22	MPI-ESM-LR_r1i1p1	COSMO-crCLIM-v1-1_v1	PTXW	PTXW		PTXW
3	WAS-22	NorESM1-M_r1i1p1	COSMO-crCLIM-v1-1_v1	PTXW	PTXW		PTXW
4	WAS-22	HadGEM2-ES_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
5	WAS-22	MPI-ESM-LR_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW
6	WAS-22	NorESM1-M_r1i1p1	REMO2015_v1	PTXW	PTXW		PTXW

7	WAS-22	MIROC5_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
8	WAS-22	MPI-ESM-MR_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
9	WAS-22	NorESM1-M_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
10	WAS-44	CanESM2_r1i1p1	RegCM4-4_v5	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
11	WAS-44	CNRM-CM5_r1i1p1	RegCM4-4_v5	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
12	WAS-44	CSIRO-Mk3-6-0_r1i1p1	RegCM4-4_v5	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
13	WAS-44	IPSL-CM5A-LR_r1i1p1	RegCM4-4_v5	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
14	WAS-44	MPI-ESM-MR_r1i1p1	RegCM4-4_v5	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
15	WAS-44	GFDL-ESM2M_r1i1p1	RegCM4-4_v5	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
16	WAS-44	MPI-ESM-LR_r1i1p1	REMO2009_v1	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
17	WAS-44	CanESM2_r1i1p1	RCA4_v2	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
18	WAS-44	CNRM-CM5_r1i1p1	RCA4_v2	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
19	WAS-44	CSIRO-Mk3-6-0_r1i1p1	RCA4_v2	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
20	WAS-44	EC-EARTH_r12i1p1	RCA4_v2	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
21	WAS-44	IPSL-CM5A-MR_r1i1p1	RCA4_v2	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
22	WAS-44	MIROC5_r1i1p1	RCA4_v2	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
23	WAS-44	HadGEM2-ES_r1i1p1	RCA4_v2	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
24	WAS-44	MPI-ESM-LR_r1i1p1	RCA4_v2	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
25	WAS-44	NorESM1-M_r1i1p1	RCA4_v2	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
26	WAS-44	GFDL-ESM2M_r1i1p1	RCA4_v2	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>

1 [END TABLE ATLAS.SM.8 HERE]

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5 [START TABLE ATLAS.SM.9 HERE]

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7 **Table Atlas.SM.9:** Regional simulations from the CORDEX East Asia (EAS) domain (Figure Atlas.6) used in the  
8      Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
9      resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Table.A.1) and RCM (see Table  
10     AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
11     the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
12     (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
13     lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
14     GitHub repository (Iturbide et al., 2021).

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#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	EAS-22	HadGEM2-ES_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
2	EAS-22	MPI-ESM-LR_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
3	EAS-22	NorESM1-M_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
4	EAS-44	CNRM-CM5_r1i1p1	CCLM5-0-2_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
5	EAS-44	EC-EARTH_r12i1p1	CCLM5-0-2_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
6	EAS-44	HadGEM2-ES_r1i1p1	CCLM5-0-2_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
7	EAS-44	MPI-ESM-LR_r1i1p1	CCLM5-0-2_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
8	EAS-44	EC-EARTH_r3i1p1	HIRHAM5_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
9	EAS-22	HadGEM2-ES_r1i1p1	RegCM4-4_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
10	EAS-22	MPI-ESM-MR_r1i1p1	RegCM4-4_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>

11	EAS-22	NorESM1-M_r1i1p1	RegCM4-4_v0	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
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2 [END TABLE ATLAS.SM.9 HERE]  
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5 [START TABLE ATLAS.SM.10 HERE]  
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7 **Table Atlas.SM.10:** Regional simulations from the CORDEX Australasia (AUS) domain (Figure Atlas.6) used in the  
8     Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
9     resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
10     AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
11     the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
12     (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
13     lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
14     GitHub repository (Iturbide et al., 2021).  
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#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	AUS-22	HadGEM2-ES_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
2	AUS-22	MPI-ESM-LR_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
3	AUS-22	NorESM1-M_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
4	AUS-22	HadGEM2-ES_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
5	AUS-22	MPI-ESM-MR_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
6	AUS-22	NorESM1-M_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
7	AUS-44	EC-EARTH_r12i1p1	CCLM4-8-17-CLM3-5_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
8	AUS-44	MPI-ESM-LR_r1i1p1	CCLM4-8-17-CLM3-5_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
9	AUS-22	HadGEM2-ES_r1i1p1	CCLM5-0-15_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
10	AUS-22	MPI-ESM-LR_r1i1p1	CCLM5-0-15_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
11	AUS-22	NorESM1-M_r1i1p1	CCLM5-0-15_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
12	AUS-44	CanESM2_r1i1p1	WRF360J_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
13	AUS-44	CanESM2_r1i1p1	WRF360K_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
14	AUS-44	ACCESS1-3_r1i1p1	WRF360J_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
15	AUS-44	ACCESS1-3_r1i1p1	WRF360K_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
16	AUS-44	ACCESS1-0_r1i1p1	WRF360J_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
17	AUS-44	ACCESS1-0_r1i1p1	WRF360K_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
18	AUS-44i	ACCESS1-0_r1i1p1	CCAM-2008_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
19	AUS-44i	CanESM2_r1i1p1	CCAM-2008_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
20	AUS-44i	MIROC5_r1i1p1	CCAM-2008_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
21	AUS-44i	NorESM1-M_r1i1p1	CCAM-2008_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
22	AUS-44i	GFDL-ESM2M_r1i1p1	CCAM-2008_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>

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17 [END TABLE ATLAS.SM.10 HERE]  
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4   **Table Atlas.SM.11:** Regional simulations from the CORDEX Antarctic (ANT) domain (Figure Atlas.6) used in the  
 5   Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
 6   resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
 7   AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
 8   the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
 9   (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
 10   lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
 11   GitHub repository (Iturbide et al., 2021).  
 12

#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	ANT-44	EC-EARTH_r3i1p1	HIRHAM5_v1	PTXW		PTXW	PTXW
2	ANT-44	EC-EARTH_r1i1p1	RACMO21P_v1	PTXW		PTXW	PTXW
3	ANT-44	HadGEM2-ES_r1i1p1	RACMO21P_v2	PTXW	PTXW	PTXW	PTXW
4	ANT-44	ACCESS1-3_r1i1p1	MAR311_v1	PTXW			PTXW
5	ANT-44	NorESM1-M_r1i1p1	MAR311_v1	PTXW			PTXW

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14 [END TABLE ATLAS.SM.11 HERE]  
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17 [START TABLE ATLAS.SM.12 HERE]

18   **Table Atlas.SM.12:** Regional simulations from the CORDEX Arctic (ARC) domain (Figure Atlas.6) used in the  
 19   Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and  
 20   resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table  
 21   AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate  
 22   the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation  
 23   (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates  
 24   lack of data. Further details (including the specific ESGF versions used) are given in the Atlas  
 25   GitHub repository (Iturbide et al., 2021).  
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#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	ARC-44	EC-EARTH_r3i1p1	HIRHAM5_v1	PTXW		PTXW	PTXW
2	ARC-44	MPI-ESM-LR_r1i1p1	RRCM_v1	PTXW			PTXW
3	ARC-44	CanESM2_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
4	ARC-44	EC-EARTH_r12i1p1	RCA4-SN_v1	PTXW			PTXW
5	ARC-44	EC-EARTH_r12i1p1	RCA4_v1	PTXW	PTXW	PTXW	PTXW
6	ARC-44	MPI-ESM-LR_r1i1p1	RCA4-SN_v1	PTXW			PTXW
7	ARC-44	MPI-ESM-LR_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
8	ARC-44	NorESM1-M_r1i1p1	RCA4_v1	PTXW		PTXW	PTXW
9	ARC-22	CanESM2_r1i1p1	CanRCM4_r2	PTXW		PTXW	PTXW
10	ARC-44	CanESM2_r1i1p1	CRCM5_v1	PTXW			PTXW
11	ARC-44	MPI-ESM-MR_r1i1p1	CRCM5_v1	PTXW			PTXW

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29 [END TABLE ATLAS.SM.12 HERE]  
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12**[START TABLE ATLAS.SM.13 HERE]**

**Table Atlas.SM.13:** Regional simulations from the CORDEX Mediterranean (MED) domain (Figure Atlas.6) used in the Atlas for the historical and RCP scenario experiments. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table AII.2 for salient features of these models) pairs used in the simulations. The models selected in this domain are the coupled atmosphere-ocean regional models providing scenario simulations. Columns 5–8 indicate the availability of the sea surface temperature (with monthly frequency) used in the Atlas. Further details (including the specific ESGF versions used) are given in the Atlas GitHub repository (Iturbide et al., 2021).

#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	MED-44	IPSL-CM5A-MR_r1i1p1	LMD-LMDZ4NEMOMED8_v1	0		0	0
2	MED-44	IPSL-CM5A-MR_r1i1p1	LMD-LMDZ4NEMOMED8_v2	0		0	0
3	MED-44	CNRM-CM5_r1i1p1	LMD-LMDZ4NEMOMED8_v2	0		0	0
4	MED-44	MPI-ESM-MR_r1i1p1	LMD-LMDZ4NEMOMED8_v2	0		0	0
5	MED-22	MPI-ESM-LR_r1i1pi	GERICS-AWI-ROM	0		0	0
6	MED-44	MPI-ESM-LR_r1i1p1	GERICS-AWI-ROM	0		0	0
7	MED-11	EC-EARTH_r12i1p1	GUF-CCLM5-0-9-NEMOMED12-3-6_v1	0		0	0
8	MED-44	CNRM-CM5_r1i1p1	CNRM-RCSM4_v1	0	0	0	0
9	MED-44i	MPI-ESM-LR_r1i1p1	UBELGRADE-EBU	0		0	0
10	MED-11	CMCC-CM_r1i1p1	CMCC-CCLM4-21-NEMOMFS_v1	0		0	0

**[END TABLE ATLAS.SM.13 HERE]****[START TABLE ATLAS.SM.14 HERE]**

**Table Atlas.SM.14:** Regional simulations from the CORDEX South-East Asia (SEA) domain (Figure Atlas.6) used in the Atlas for the historical and RCP scenario experiments. Column 2 indicates the domain and resolution. Columns 3–4 indicate the CMIP5 GCM (see Table Atlas.A.1) and RCM (see Table AII.2 for salient features of these models) pairs used in the simulations. Columns 5–8 indicate the availability of the different variables (with daily frequency) used in the Atlas. P: precipitation (pr); T: temperature (tas); X: tasmin and tasmax; W: wind (sfcWind); a blank space indicates lack of data. Further details (including the specific ESGF versions used) are given in the Atlas GitHub repository (Iturbide et al., 2021).

#	Domain	GCM_run	RCM	Hist	RCP2.6	RCP4.5	RCP8.5
1	SEA-22	HadGEM2-ES_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
2	SEA-22	MPI-ESM-LR_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
3	SEA-22	NorESM1-M_r1i1p1	REMO2015_v1	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
4	SEA-22	EC-EARTH_r1i1p1	RegCM4-3_v4	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
5	SEA-22	IPSL-CM5A-LR_r1i1p1	RegCM4-3_v4	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
6	SEA-22	MPI-ESM-MR_r1i1p1	RegCM4-3_v4	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
7	SEA-22	HadGEM2-ES_r1i1p1	RCA4_v1	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
8	SEA-22	HadGEM2-ES_r1i1p1	RegCM4-3_v4	<b>PTXW</b>		<b>PTXW</b>	<b>PTXW</b>
9	SEA-22	HadGEM2-ES_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>
10	SEA-22	MPI-ESM-MR_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>		<b>PTXW</b>

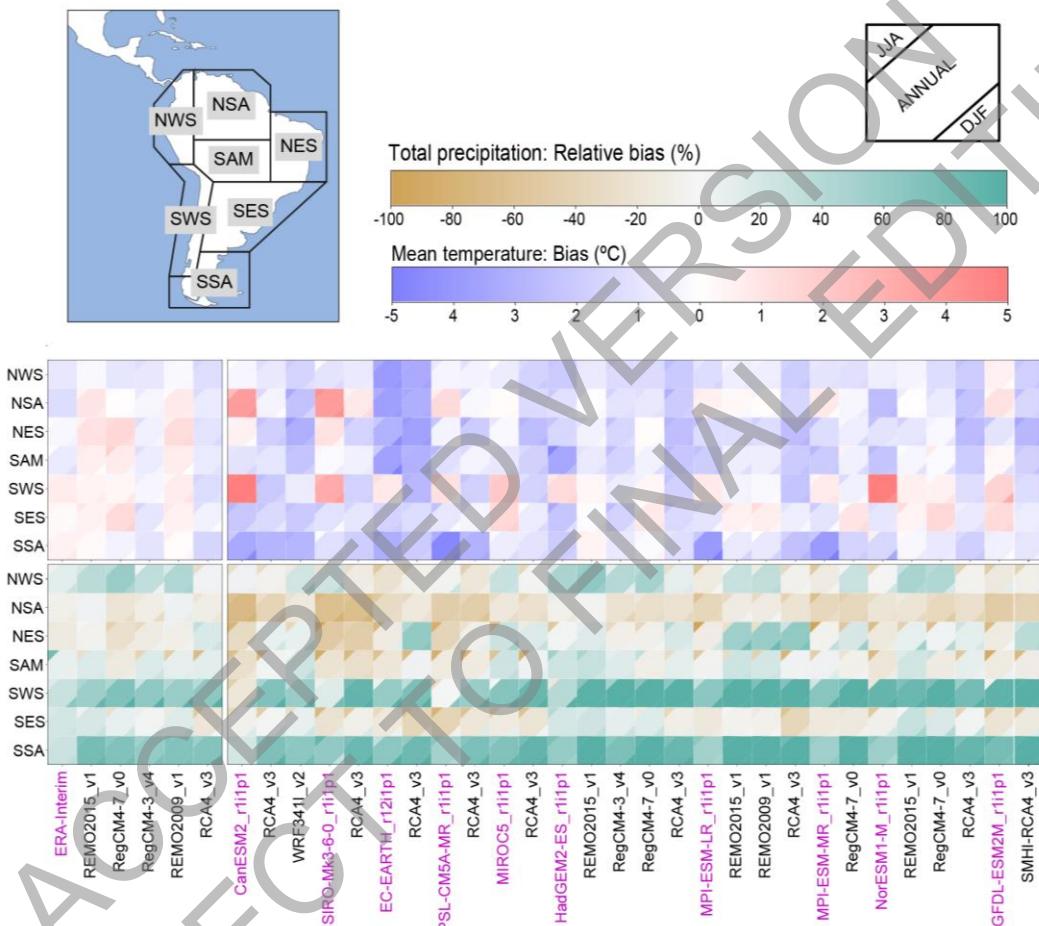
11	SEA-22	NorESM1-M_r1i1p1	RegCM4-7_v0	<b>PTXW</b>	<b>PTXW</b>	<b>PTXW</b>
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## 5 Atlas.SM.2 Figures of regional (CORDEX) model evaluation

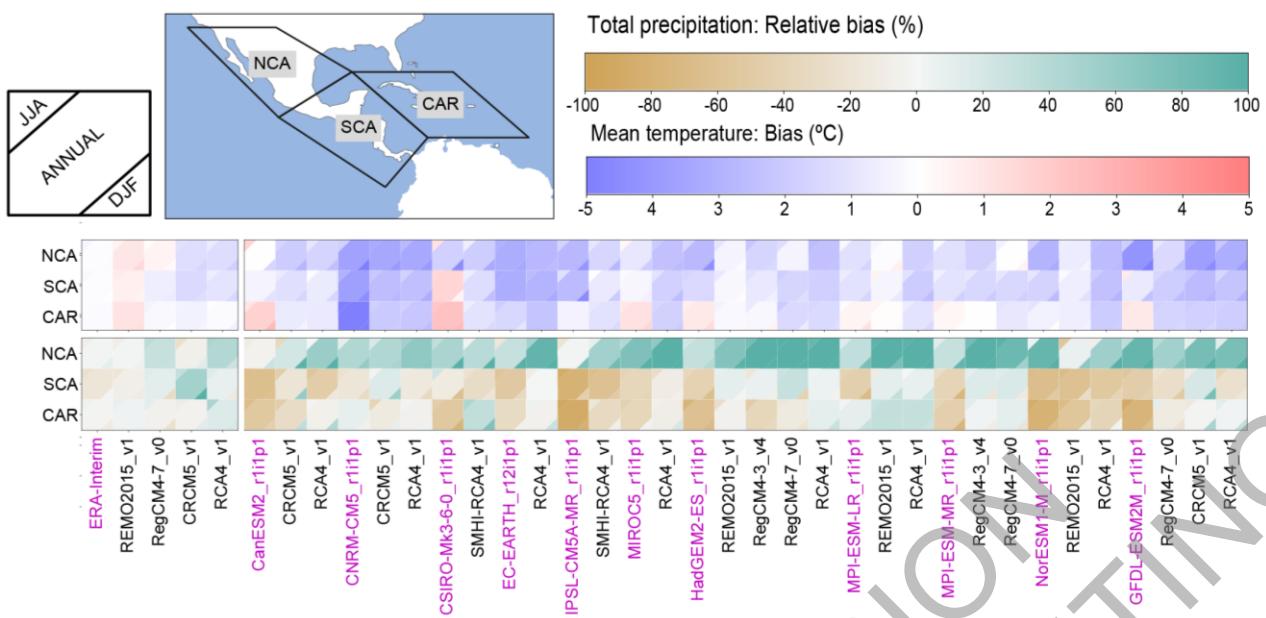
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7 The following figures expand the illustrative evaluation results shown in Atlas 1.4.4 (Figure Atlas.7) for the  
8 CORDEX North America domain (NAM) to the other domains considered in the Atlas and the Interactive  
9 Atlas (see Figure Atlas.6 and Tables Atlas.SM.3 to Atlas.SM.14). Detailed information and salient features  
10 of these models are described in Tables AII.2 to AII.4.

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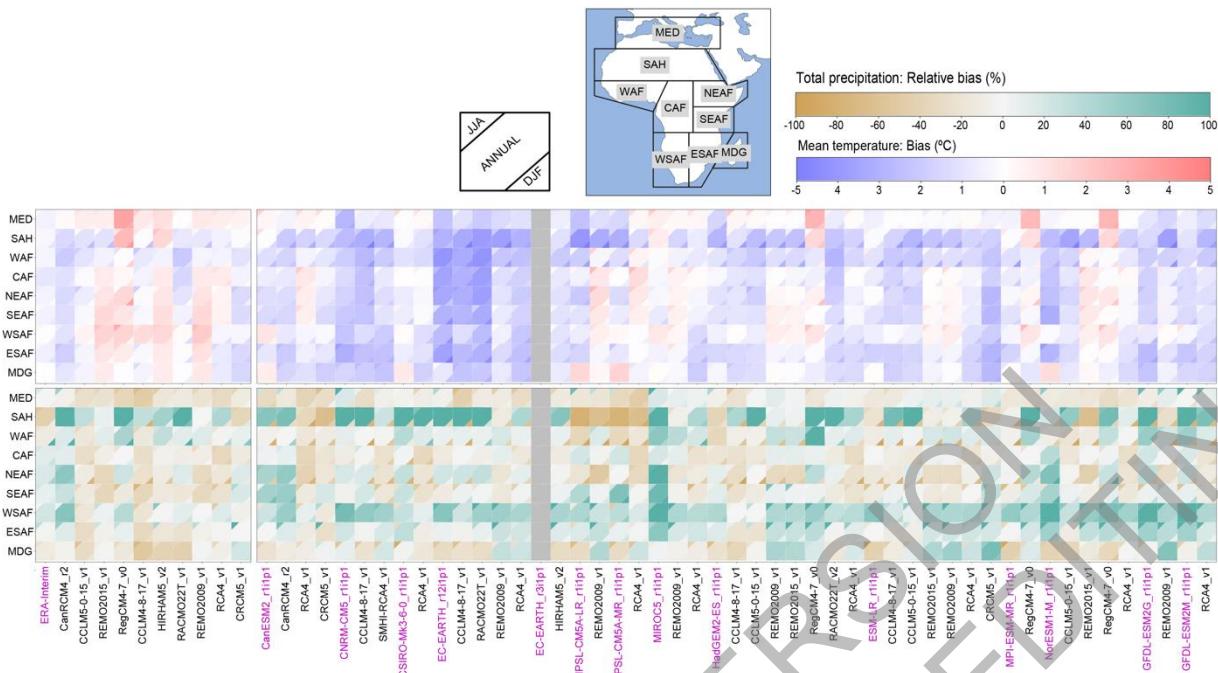


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15 **Figure Atlas.SM.1:** Evaluation of annual and seasonal air temperature and precipitation for the seven South America  
16 subregions NWS, NSA, SAM, NES, SWS, SES, and SSA (land only) for CORDEX-SAM (see  
17 Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June-  
18 July-August (JJA) and December-January-February (DJF). Rows represent subregions and  
19 columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs  
20 (including ERA-Interim in first set of slightly separated columns) and the black text to the right  
21 of the magenta text represents the driven RCMs. The colour matrices show the mean spatial  
22 biases; all biases have been computed for the period 1985–2005 relative to the observational  
23 reference (E5W5, see Section Atlas 1.4.2).

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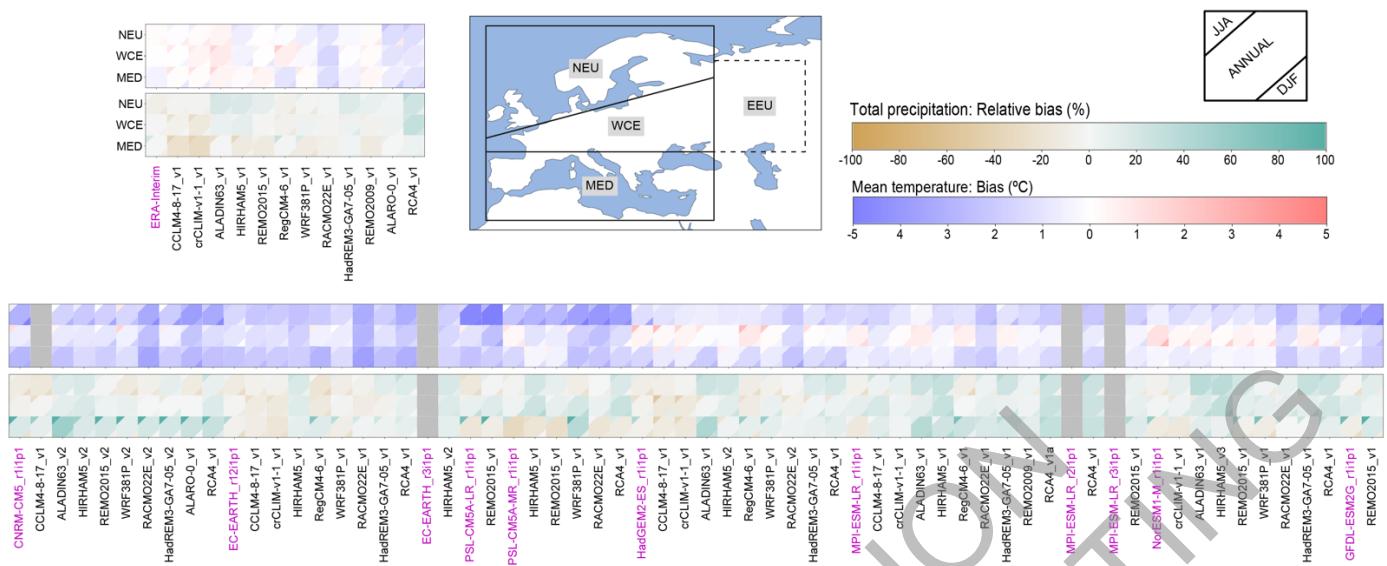


**Figure Atlas.SM.2:** Evaluation of annual and seasonal air temperature and precipitation for the three Central America subregions NCA, SCA and CAR (land only) for CORDEX-CAM (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June-July-August (JJA) and December-January-February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).



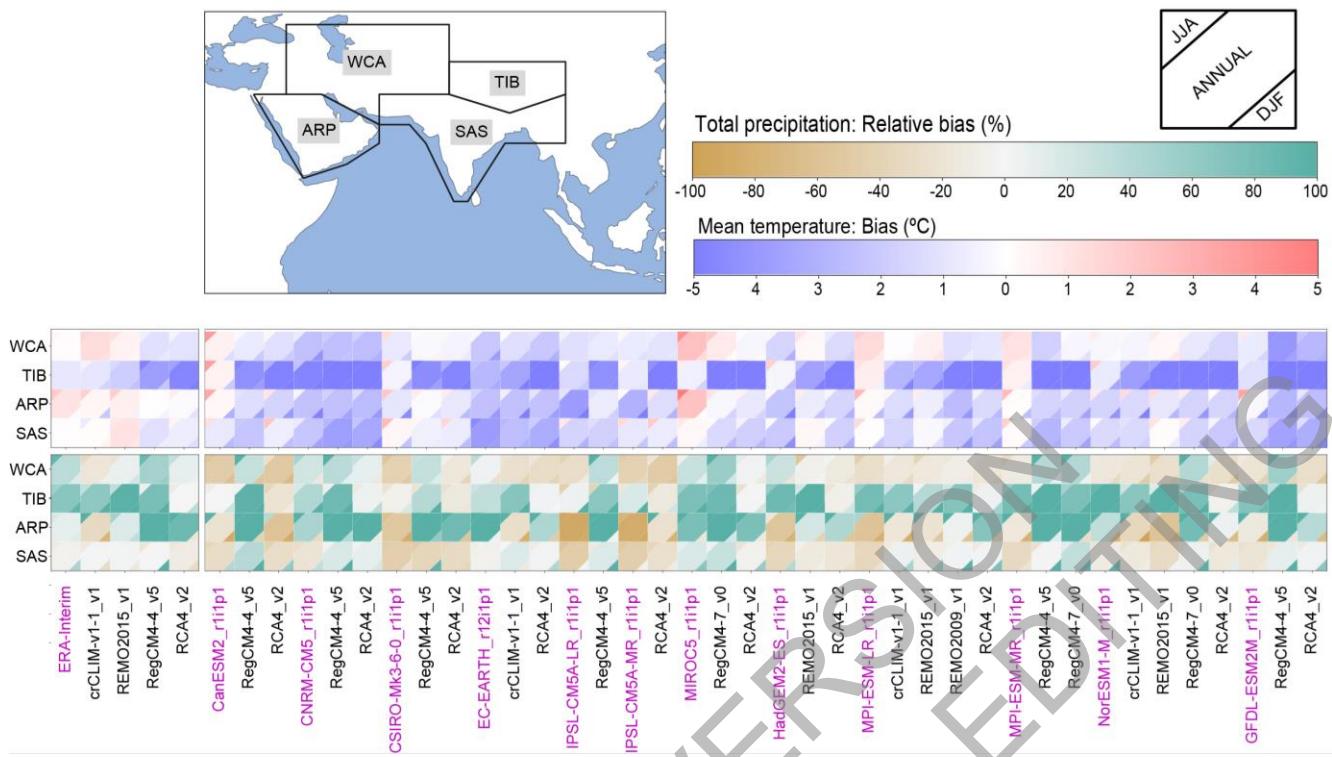
**Figure Atlas.SM.3:** Evaluation of annual and seasonal air temperature and precipitation for the nine African subregions MED, SAH, WAF, CAF, NEAF, SEAF, WSAF, ESAF, and MDG (land only) for the CORDEX-AFR (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June–July–August (JJA) and December–January–February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).

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**Figure Atlas.SM.4:** Evaluation of annual and seasonal air temperature and precipitation for the three European subregions NEU, WCE and MED (land only) for CORDEX-EUR11 (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June–July–August (JJA) and December–January–February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).

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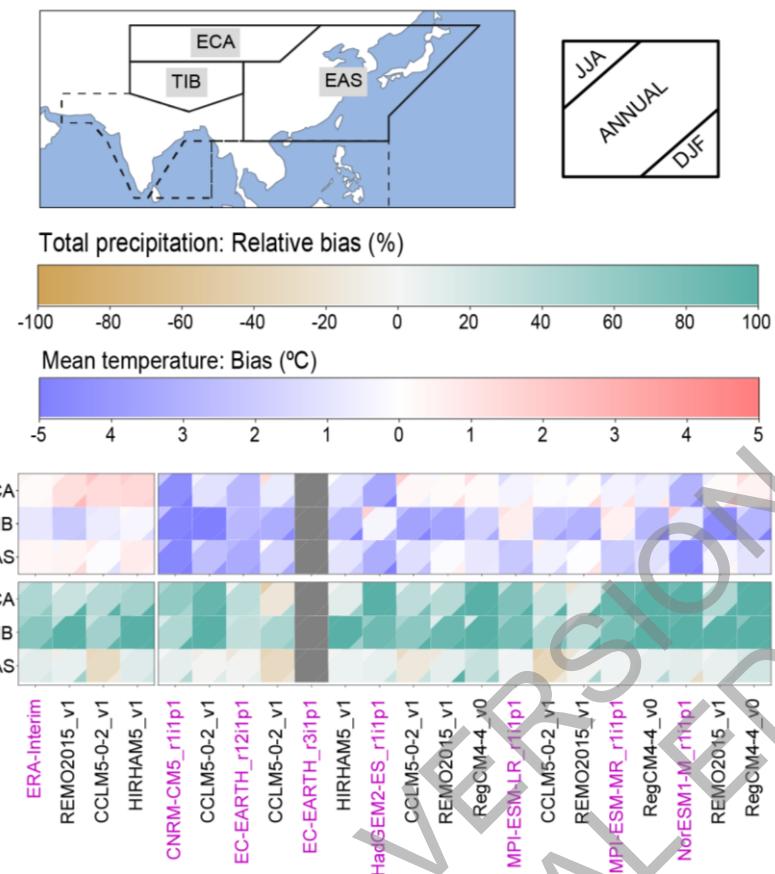
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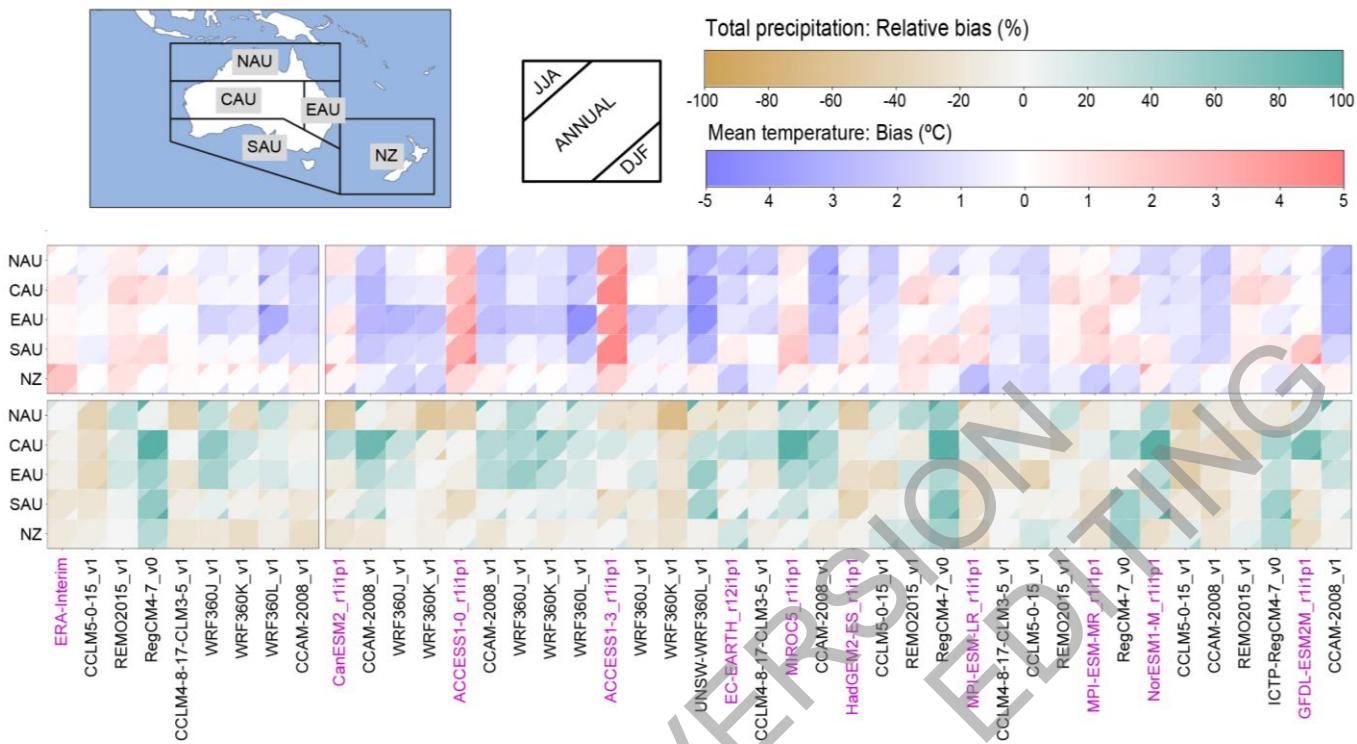
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**Figure Atlas.SM.5:** Evaluation of annual and seasonal air temperature and precipitation for the four Asian subregions WCA, TIB, ARP and SAS (land only) for CORDEX-WAS (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June–July–August (JJA) and December–January–February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).

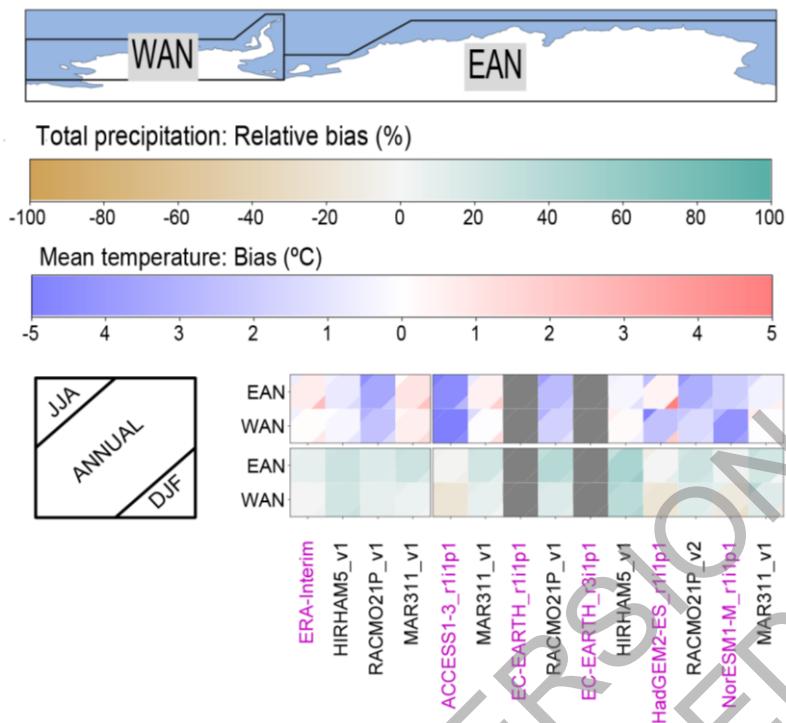


**Figure Atlas.SM.6:** Evaluation of annual and seasonal air temperature and precipitation for the three Asian subregions ECA, TIB and EAS (land only) for CORDEX-EAS (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June–July–August (JJA) and December–January–February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).

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**Figure Atlas.SM.7:** Evaluation of annual and seasonal air temperature and precipitation for the five Australasia subregions NAU, CAU, EAU, SAU, and NZ (land only) for CORDEX-AUS (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June-July-August (JJA) and December-January-February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).

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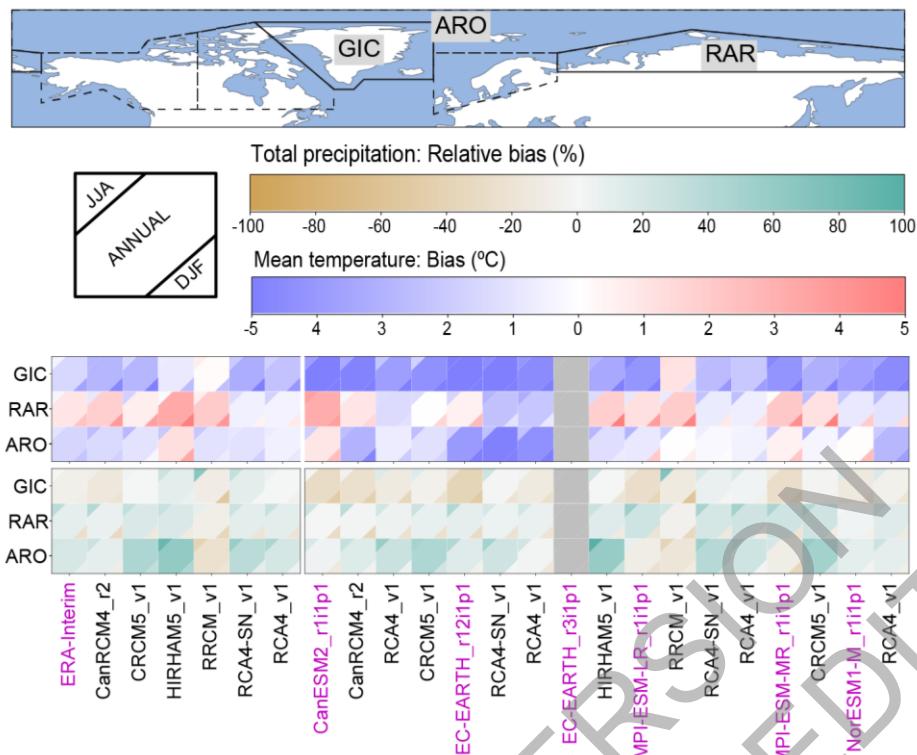
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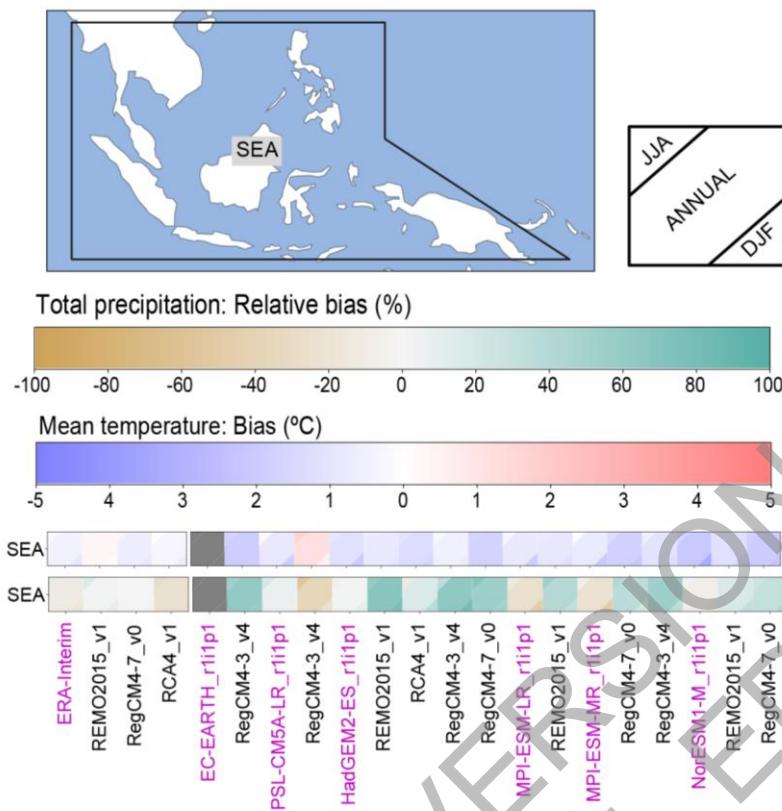
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**Figure Atlas.SM.8:** Evaluation of annual and seasonal air temperature and precipitation for the Antarctic regions EAN and WAN (land only) for CORDEX-ANT (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June–July–August (JJA) and December–January–February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).



**Figure Atlas.SM.9:** Evaluation of annual and seasonal air temperature and precipitation for the Arctic regions GIC, RAR (land only), ARO for CORDEX-ARC (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June–July–August (JJA) and December–January–February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).



**Figure Atlas.SM.10:** Evaluation of annual and seasonal air temperature and precipitation for the Asian subregion SEA (land only) for CORDEX-SEA (see Figure Atlas.6) RCM simulations driven by reanalysis or historical GCMs. Seasons are June–July–August (JJA) and December–January–February (DJF). Rows represent subregions and columns correspond to the models. Magenta text indicates the driving historical CMIP5 GCMs (including ERA-Interim in first set of slightly separated columns) and the black text to the right of the magenta text represents the driven RCMs. The colour matrices show the mean spatial biases; all biases have been computed for the period 1985–2005 relative to the observational reference (E5W5, see Section Atlas 1.4.2).

### Atlas.SM.3 Data Table

[START TABLE ATLAS.SM.15 HERE]

**Table Atlas.SM.15:** Input datasets and code used in the chapter.

Figure number	Dataset / Code name	Type	Filename / Specificities	License type	Dataset / Code citation	Dataset / Code URL	Related publications
Atlas.5	CRU-TS v4.04 HadSST.4	Input dataset		Open Government License: <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/">http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/</a>		<a href="https://crudat.auea.ac.uk/crudata/hrg/cru_ts_4.04/">https://crudat.auea.ac.uk/crudata/hrg/cru_ts_4.04/</a> <a href="https://www.metoffice.gov.uk/hadobs/hadsst4/">https://www.metoffice.gov.uk/hadobs/hadsst4/</a>	Harris et al., 2020 Kennedy et al., 2019

<b>Atlas.11.a,c</b>	Berkeley Earth	Input dataset		N/A		<a href="http://berkeleyearth.org/data/">http://berkeleyearth.org/data/</a>	Rohde and Hausfater 2020
	observations TrendsGlob al.R (for panel a)	Code				<a href="https://github.com/IPCC-WG1/Atlas/scripts">https://github.com/IPCC-WG1/Atlas/scripts</a>	
<b>Atlas.11.b,e</b>	CRU-TS v4.04	Input dataset		Open Government License: <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/">http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/</a>			Harris et al., 2020
	observations TrendsGlob al.R	Code				<a href="https://github.com/IPCC-WG1/Atlas/scripts">https://github.com/IPCC-WG1/Atlas/scripts</a>	
<b>Atlas.11.d</b>	CRUTEM5	Input dataset		Open Government License: <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/">http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/</a>		<a href="https://www.metoffice.gov.uk/hadobs/crutem5/">https://www.metoffice.gov.uk/hadobs/crutem5/</a>	Osborn et al., 2021
<b>Atlas.11.f</b>	GPCC v2020	Input dataset		N/A			Schneider et al., 2020
	observations TrendsGlob al.R	Code				<a href="https://github.com/IPCC-WG1/Atlas/scripts">https://github.com/IPCC-WG1/Atlas/scripts</a>	
<b>Atlas.18</b>	World Data Centre of the Russian Institute for Hydrometeorological Information (RIHMI-WDC)	Input dataset		N/A			Bulygina et al., 2014
	observations TrendsSnow .R	Code					

<b>Atlas.20</b>	ACORN-SAT V2.1 AGCD v2	Input dataset		N/A		https://doi.org/10.25941/5d28a5d352de7	
<b>Atlas.23.a,c</b>	E-OBS v21e	Input dataset		Data Policy for ECA&D and E-OBS: <a href="https://eca.knmi.nl/documents/E_CAD_datapolicy.pdf">https://eca.knmi.nl/documents/E_CAD_datapolicy.pdf</a>		spatialMaps_onemodel.R	Cornes et al., 2018
	observations TrendsEurope.R	Code				https://github.com/IPCC-WG1/Atlas/scripts	
<b>Atlas.23.b</b>	E-OBS v21e	Input dataset		Data Policy for ECA&D and E-OBS: <a href="https://eca.knmi.nl/documents/E_CAD_datapolicy.pdf">https://eca.knmi.nl/documents/E_CAD_datapolicy.pdf</a>			Cornes et al., 2018
	CRU-TS v4.04	Input dataset		Open Government License: <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/">http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/</a>			Harris et al., 2020
	Berkeley Earth	Input dataset		N/A			Rohde and Hausfater 2020
	ERA5	Input dataset		License to use Copernicus products: <a href="https://cds.climate.copernicus.eu/api/v2/terms/static/licence-to-use-copernicus-products.pdf">https://cds.climate.copernicus.eu/api/v2/terms/static/licence-to-use-copernicus-products.pdf</a>			Hersbach et al., 2020
	observations SeriesEurope.R	Code				https://github.com/IPCC-WG1/Atlas/scripts	

<b>Atlas.23.d</b>	E-OBS v21e	Input dataset	Temporal series	Data Policy for ECA&D and E-OBS: <a href="https://eca.knmi.nl/documents/E_CAD_datapolicy.pdf">https://eca.knmi.nl/documents/E_CAD_datapolicy.pdf</a>			Cornes et al., 2018
	CRU-TS v4.04	Input dataset		Open Government License: <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/">http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/</a>			Harris et al., 2020
	GPCC v2020	Input dataset		N/A			Schneider et al., 2020
	GPCP v2.3	Input dataset		N/A			Adler et al., 2003
	observations SeriesEurope.R	Code				<a href="https://github.com/IPCC-WG1/Atlas/scripts">https://github.com/IPCC-WG1/Atlas/scripts</a>	

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2 [END TABLE ATLAS.SM.15 HERE]

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**1 References**

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