

Table 5: Change of the mean annual temperature for selected African Stations. \* Means value unreliable due to lack of or scattering data.

© Gerd Esser, 2020. Data source: Deutscher Wetterdienst.

Station	Period	missing before/after 1980	Slope [ $^{\circ}\text{C}\cdot\text{a}^{-1}$ ]	
			before 1980	after
<b><i>Morocco</i></b>				
Casablanca	1950–2019	5/5	$-0.017 \pm 0.010$	$+0.035 \pm 0.007$
Marrakech	1950–2019	6/3	$-0.022 \pm 0.013$	$+0.033 \pm 0.008$
<b><i>Algeria</i></b>				
Oran / Es Sénia	1949–2019	3/5	$-0.022 \pm 0.010$	$+0.038 \pm 0.006$
Algiers / Dar El Beïda	1950–2019	6/3	$-0.025 \pm 0.009$	$+0.027 \pm 0.006$
Biskra Airport	1949–2019	13/5	$-0.038 \pm 0.014$	$+0.022 \pm 0.007$
El Golea Airport	1950–2019	5/8	$-0.055 \pm 0.012$	$+0.041 \pm 0.008$
<b><i>Tunisia</i></b>				
Tūnis	1950–2019	1/1	$-0.000 \pm 0.009$	$+0.051 \pm 0.006$
<b><i>Niger</i></b>				
Tahoua Airport	1953–2019	3/13	$+0.014 \pm 0.010^*$	$+0.033 \pm 0.006$
Tillabéry	1953–2019	3/13	$+0.025 \pm 0.010$	$+0.015 \pm 0.005$
Maradi Airport	1953–2019	3/14	$+0.013 \pm 0.011$	$+0.021 \pm 0.006$
Zinder Airport	1951–2019	3/7	$-0.013 \pm 0.010$	$+0.020 \pm 0.006$
<b><i>Mali</i></b>				
Mopti Airport	1950–2018	4/20	$+0.030 \pm 0.008$	$+0.014 \pm 0.014^*$
<b><i>Mauretania</i></b>				
Nouadhibou / Nawādībū Airport	1950–2017	5/22	$-0.057 \pm 0.016$	$+0.047 \pm 0.008$
Nouakchott / Nawākšūṭ Airport	1951–2016	5/14	$-0.053 \pm 0.017$	$+0.041 \pm 0.008$
<b><i>Senegal</i></b>				
Dakar Yoff	1950–2019	3/3	$-0.021 \pm 0.012$	$+0.027 \pm 0.007$
Tambacounda Airport	1950–2018	4/10	$+0.014 \pm 0.013$	$+0.042 \pm 0.005$
Ziguinchor Airport	1953–2019	2/11	$-0.036 \pm 0.011$	$+0.024 \pm 0.004$
<b><i>Burkina Faso</i></b>				
Quagadougou	1950–2018	3/9	$-0.005 \pm 0.007$	$+0.021 \pm 0.004$
<b><i>Benin</i></b>				

Continued next page

Table 5: African Stations, continued

Station	Period	missing before/after 1980	Slope [ $^{\circ}\text{C}\cdot\text{a}^{-1}$ ]	
			before 1980	after
Kandi	1950–2019	1/3	$-0.008 \pm 0.006$	$+0.026 \pm 0.005$
Savè	1953–2019	6/0	$-0.034 \pm 0.011$	$+0.033 \pm 0.004$
Cotonou	1950–2019	0/0	$+0.005 \pm 0.008$	$+0.031 \pm 0.003$
<b><i>Togo</i></b>				
Mango	1953–2019	3/11	$-0.014 \pm 0.010$	$+0.031 \pm 0.005$
<b><i>Côte d’Ivoire</i></b>				
Abidjan	1950–2018	0/18	$-0.012 \pm 0.007$	$+0.020 \pm 0.007$
Tabou	1950–2017	0/20	$-0.017 \pm 0.005$	$+0.012 \pm 0.005$
<b><i>Sudan</i></b>				
Port Sudan / Būr Sūdān Airport	1951–2018	0/14	$-0.017 \pm 0.010$	$+0.068 \pm 0.007$
Khartoum / al-Ḥarṭūm Airport	1950–2019	0/8	$+0.044 \pm 0.011$	$+0.046 \pm 0.008$
El Obeid / al-’Abyaḍ Airport	1949–2019	0/11	$+0.026 \pm 0.011$	$+0.035 \pm 0.008$
El Fasher / al-Fāšir Airport	1949–2019	1/19	$+0.021 \pm 0.012$	$+0.064 \pm 0.010$
<b><i>Kenya</i></b>				
Nairobi Jomo Kenyatta Airport	1950–2018	6/8	$-0.001 \pm 0.011$	$+0.032 \pm 0.005$
<b><i>Tanzania</i></b>				
Dar es Salaam / Dār as-Salām	1951–2019	5/19	$-0.012 \pm 0.008$	$+0.008 \pm 0.007$
Tabora	1950–2019	6/26	$-0.010 \pm 0.010$	$+0.011 \pm 0.023^*$
<b><i>Mozambique</i></b>				
Beira	1949–2018	0/20	$-0.004 \pm 0.005$	$+0.012 \pm 0.006^*$
Maputo	1949–2019	1/22	$+0.011 \pm 0.009$	$+0.016 \pm 0.008$
<b><i>Zimbabwe</i></b>				
Bulawayo	1949–2015	5/19	$+0.009 \pm 0.011$	$+0.009 \pm 0.009$
<b><i>Republic of the Congo</i></b>				
Brazzaville Airport	1950–2018	5/25	$-0.001 \pm 0.009$	$+0.026 \pm 0.006$
<b><i>South Africa</i></b>				
Polokwane	1949–2019	2/0	$-0.003 \pm 0.007$	$+0.034 \pm 0.008$
Johannesburg	1949–2019	5/0	$-0.008 \pm 0.009$	$+0.038 \pm 0.010$
Bloemfontein	1951–2019	3/1	$-0.008 \pm 0.011$	$+0.027 \pm 0.012$

Continued next page

Table 5: African Stations, continued

Station	Period	missing before/after 1980	Slope [ $^{\circ}\text{C}\cdot\text{a}^{-1}$ ]	
			before 1980	after
Durban	1951–2017	4/2	$+0.021 \pm 0.007$	$+0.010 \pm 0.005$
East London	1951–2019	5/1	$+0.009 \pm 0.007$	$+0.020 \pm 0.004$
Port Elizabeth	1951–2019	2/1	$+0.039 \pm 0.006$	$+0.008 \pm 0.006$
Cape Town	1951–2019	3/0	$+0.017 \pm 0.004$	$+0.042 \pm 0.004$
<b><i>Madagascar</i></b>				
Antsirañana	1952–2019	3/14	$-0.055 \pm 0.014$	$+0.017 \pm 0.006$
Mahajanga	1952–2019	4/8	$-0.018 \pm 0.009$	$+0.024 \pm 0.003$
Toamasina	1952–2019	3/10	$-0.022 \pm 0.010$	$+0.036 \pm 0.003$
Tolagnaro / Tôlañaro	1953–2018	5/14	$+0.011 \pm 0.009$	$+0.028 \pm 0.004$
<b><i>Seychelles</i></b>				
Victoria Airport Mahé	1951–2019	11/3	$+0.006 \pm 0.005$	$+0.019 \pm 0.003$
<b><i>France</i></b>				
Saint-Denis / Réunion	1952–2019	4/9	$+0.011 \pm 0.009^*$	$+0.032 \pm 0.004$
Île Europa	1953–2019	4/20	$-0.010 \pm 0.010^*$	$+0.018 \pm 0.006$