

Tabelle 1: Vergleich der Gradienten und ihrer Differenzen, Anzahl und Anteile der Gruppen

Legende:		2010 Erwärmung	2012 wärmer	2012 reduziert wärmer	gleich	Daten parallel													
		2010 Abkühlung	2012 kühler	2012 reduziert kühler	??	versetzt													
lfd No	ID	Station	Daten		Gradienten		Differenz	Gruppen mit Erwärmung								Gruppen mit Abkühlung			
			ab	bis	2010	2012		0	1	2	3	4	5	6	7	8	0	10	
1	92	FARADAY	1950	2010	0,0528	0,0554	0,0026						1						
2	120	BASE ORCADAS	1903	2010	0,0205	0,0099	-0,0106							1					
3	128	Punta Arenas	1888	2010	-0,0048	0,0051	0,0099		1										
4	143	Invercargill	1950	2010	-0,0002	0,0107	0,0109		1										
5	148	COMODORO RIVA	1931	2010	0,0074	0,0044	-0,0030							1					
6	157	Christchurch	1905	2010	0,0035	0,0108	0,0073			1									
7	162	ESQUEL AERO	1931	2010	-0,0042	0,0079	0,0121		1										
8	181	LAUNCESTON AI	1939	2010	0,0033	0,0163	0,0130						1						
9	186	PUERTO MONTT	1951	2010	-0,0228	0,0054	0,0282		1										
10	193	BARILOCHE AER	1931	2010	0,0004	0,0110	0,0106						1						
11	201	SAN ANTONIO O	1931	2010	-0,0016	0,0069	0,0085		1										
12	213	New Plymouth	1951	2010	0,0033	0,0127	0,0094						1						
13	218	TEMUCO	1951	2010	-0,0076	0,0128	0,0204		1										
14	245	MAR DEL PLATA	1931	2010	0,0050	0,0052	0,0002						1						
15	249	LAVERTON AERO	1944	2010	0,0089	0,0156	0,0067						1						
16	255	MT GAMBIER AI	1942	2010	0,0133	0,0201	0,0068						1						
17	284	Auckland Air	1881	2010	0,0034	0,0046	0,0012			1									
18	303	SANTA ROSA AE	1941	2010	0,0005	0,0062	0,0057						1						
19	313	DOLORES AERO	1931	2010	0,0008	0,0007	-0,0001							1					
20	334	Pehuajo	1951	2010	0,0094	0,0117	0,0023						1						
21	355	CANBERRA AIRP	1939	2010	0,0130	0,0122	-0,0008							1					
22	359	WAGGA AIRPORT	1943	2010	0,0092	0,0119	0,0027						1						
23	422	MILDURA AIRPO	1947	2010	0,0100	0,0112	0,0012						1						
24	437	SYDNEY AIRPOR	1939	2010	0,0210	0,0096	-0,0114							1					
25	443	Capetown	1881	2010	-0,0025	0,0109	0,0134				1								
26	484	Pudahuel	1881	2010	0,0050	0,0113	0,0063			1									
27	494	SAN LUIS AERO	1931	2010	0,0097	0,0163	0,0066							1					
28	557	CEDUNA AIRPOR	1942	2010	0,0087	0,0122	0,0035						1						
29	571	PERTH AIRPORT	1945	2010	0,0131	0,0087	-0,0044							1					

lfd No	ID	Station	Daten		Gradienten		Differenz	Gruppen mit Erwärmung						Gruppen mit Abkühlung				
			ab	bis	2010	2012		0	1	2	3	4	5	6	7	8	0	10
65	3459	SALISBURY NC	1895	2010	-0,0041	0,0035	0,0076		1									
66	3482	LUQA	1881	2010	0,0049	0,0190	0,0141			1								
67	3516	QINGDAO	1898	2010	0,0094	0,0088	-0,0006				1							
68	3561	PERRY	1901	2010	0,0059	0,0026	-0,0033						1					
69	3750	TRINIDAD	1900	2010	0,0122	0,0072	-0,0050						1					
70	3809	ANNA 1E	1896	2010	-0,002	-0,0009	0,0011											1
71	3869	Isparta	1949	2010	0,0061	0,0128	0,0067				1							
72	3878	Lexington	1895	2010	0,0054	0,0049	-0,0005						1					
73	3917	ATHINAI/OBSER	1895	2010	0,0053	-0,0020	-0,0073										1	
74	3999	Salisbury ML	1907	2010	0,0054	0,0096	0,0042				1							
75	4001	MINA	1896	2010	0,0099	-0,0016	-0,0115								1			
76	4048	MOAB	1895	2010	0,0112	0,0093	-0,0019						1					
77	4094	AFYON	1881	2010	0,0053	0,0119	0,0066				1							
78	4195	DOVER	1895	2010	0,0136	0,0147	0,0011					1						
79	4274	AUSTIN	1895	2010	0,0127	0,0067	-0,0060						1					
80	4285	Palma de Mall	1881	2010	-0,0076	0,0049	0,0125		1									
81	4308	LARISSA	1900	2010	-0,0073	-0,0003	0,0070											1
82	4404	Krasovodsk	1883	2010	-0,0063	0,0119	0,0182				1							
83	4407	WRAY	1896	2010	-0,0011	0,0102	0,0113		1									
84	4500	HOLDREGE	1902	2010	0,0007	0,0052	0,0045					1						
85	4605	Aomori	1886	2010	0,0092	0,0107	0,0015				1							
86	4634	GOTHENBURG	1896	2010	0,0042	0,0070	0,0028					1						
87	5007	Racine	1897	2010	0,0138	0,0069	-0,0069						1					
88	5113	Almaty	1881	2010	0,0241	0,0239	-0,0002						1					
89	5125	Marseille	1881	2010	0,0099	0,0195	0,0096				1							
90	5307	Bethlehem	1895	2010	0,0010	0,0096	0,0086					1						
91	5332	Bucuresti	1881	2010	0,0062	0,0072	0,001					1						
92	5550	Vancouver 4ene	1896	2010	0,0087	0,0060	-0,0027						1					
93	5579	Sibiu	1881	2010	-0,0021	0,0054	0,0075		1									
94	5660	Geneve	1881	2010	0,0079	0,0125	0,0046					1						
95	5761	Duluth Int	1904	2010	0,0082	0,0122	0,0040					1						
96	5827	Saentis	1883	2010	0,0119	0,0142	0,0023					1						
97	6224	Poltava	1886	2010	0,0131	0,0077	-0,0054						1					
98	6437	Erfurt	1952	2010	0,0055	0,0100	0,0045					1						
99	6449	Wroclaw	1881	2010	0,0033	0,0026	-0,0007						1					

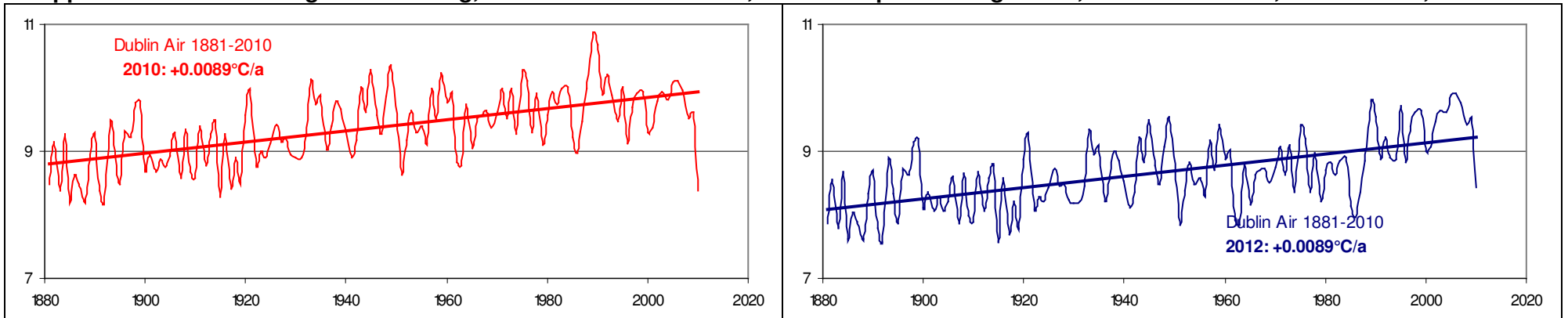
Ifd No	ID	Station	Daten		Gradienten		Differenz	Gruppen mit Erwärmung						Gruppen mit Abkühlung				
			ab	bis	2010	2012		0	1	2	3	4	5	6	7	8	0	10
100	6471	Moosonee	1881	2010	0,0033	0,0163	0,0130						1					
101	6508	Saratov	1887	2010	0,0049	0,0112	0,0063						1					
102	6552	Valentia Obse	1881	2010	0,0039	0,0103	0,0064						1					
103	6564	Cita	1891	2010	0,0136	0,0099	-0,0037							1				
104	6618	Poznan	1951	2010	0,0275	0,0237	-0,0038							1				
105	6714	Dublin Air NEU	1881	2010	0,0089	0,0089	0,000	1										
106	6733	Minusinsk	1885	2010	0,0175	0,0170	-0,0005							1				
107	6823	Vilnius	1881	2010	0,0004	0,0093	0,0089						1					
108	6825	Belfast	1881	2010	0,0057	0,0082	0,0025						1					
109	6978	Visby Air	1951	2010	0,0171	0,0259	0,0088						1					
110	6982	Kodiak	1882	2010	0,0016	0,0072	0,0056			1								
111	6986	Goteborg	1951	2010	0,0057	0,0236	0,0179						1					
112	7082	Helsinki	1951	2010	0,0073	0,0214	0,0141			1								
113	7143	Jakutsk	1883	2010	0,0144	0,0092	-0,0052							1				
114	7144	Thorshavn	1881	2010	0,0043	0,0074	0,0031			1								
115	7200	Reykjavik	1901	2010	0,0011	0,0043	0,0032						1					
116	7201	Godthab Nuuk	1881	2010	0,0086	0,0131	0,0045						1					
117	7205	Kajaani	1950	2010	0,0179	0,0166	-0,0013							1				
118	7237	Angmagssalik	1895	2010	0,0086	0,0017	-0,0069							1				
119	7270	Bodo Vi	1881	2010	0,0073	0,0134	0,0061						1					
120	7360	Ostrov Vize	1951	2010	0,0240	0,0195	-0,0045							1				
	Anzahl	(n)			120	120		1	19	12	5	41	29	1	6	3	1	2
	Erwärmung	(n)			93	108												
	dto.	(%)			77,50	90,00												
	Abkühlung	(n)			27	12												
	dto.	(%)			22,50	10,00												
		Anzahl je Gruppe (n)						1	19	12	5	41	29	1	6	3	1	2
		Anteile der Gruppen (%)						0,83	15,8	10,0	4,2	34,2	24,2	0,8	5,0	2,5	0,8	1,7
		Anteile Erwärmung / Abkühlung (%)						90,0						10,00				

Vergleich der Temperaturganglinien aller 120 Beispiele nach der Art ihrer Veränderungen klassifiziert in Gruppen

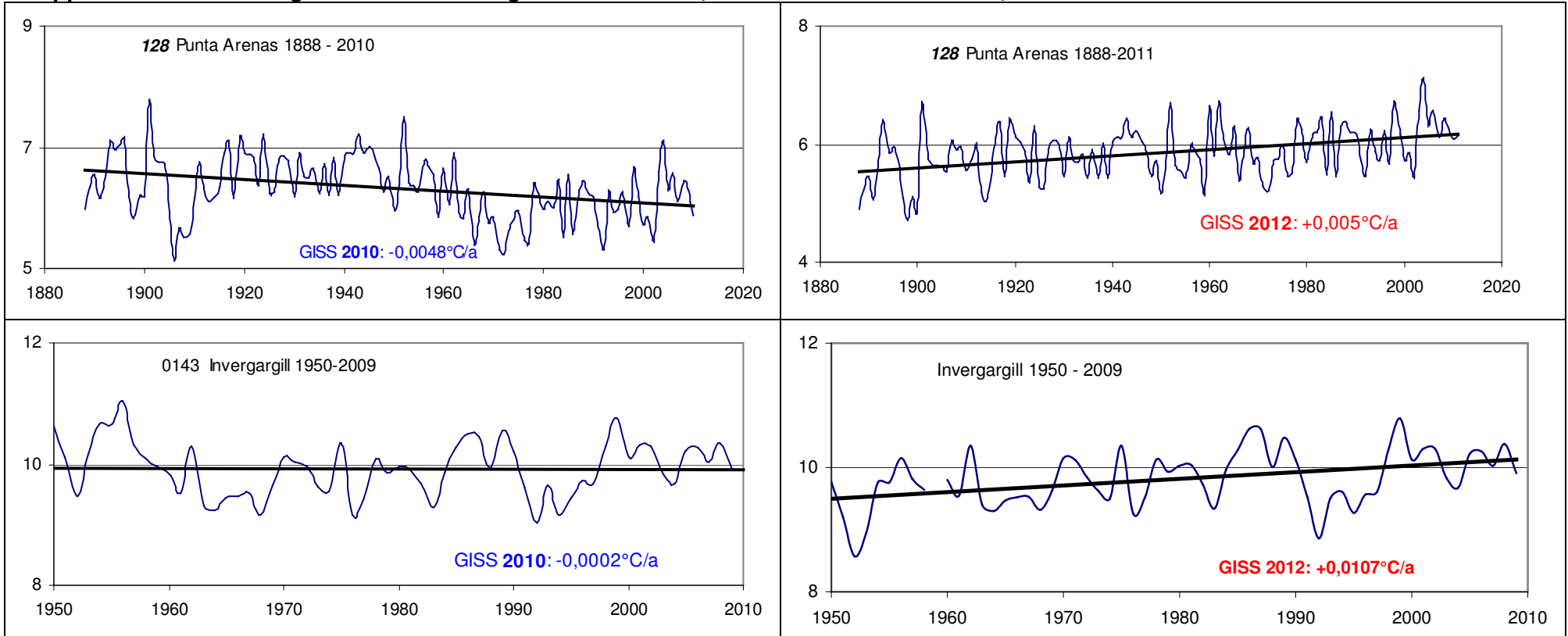
Gruppe 0	-	1	Station
Gruppe 1	-	19	Stationen
Gruppe 2	-	12	Stationen
Gruppe 3	-	5	Stationen
Gruppe 4	-	41	Stationen
Gruppe 5	-	29	Stationen
Gruppe 6	-	1	Station
Gruppe 7	-	6	Stationen
Gruppe 8	-	3	Stationen
Gruppe 9	-	1	Station
Gruppe 10	-	2	Stationen

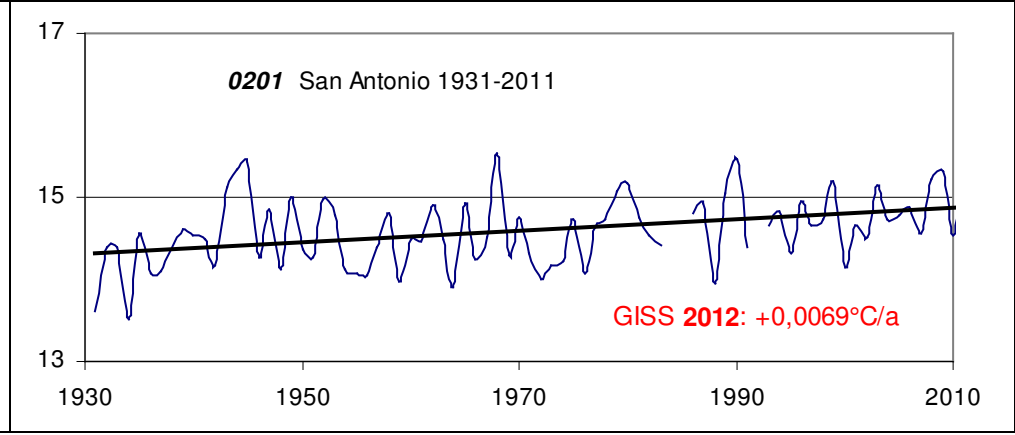
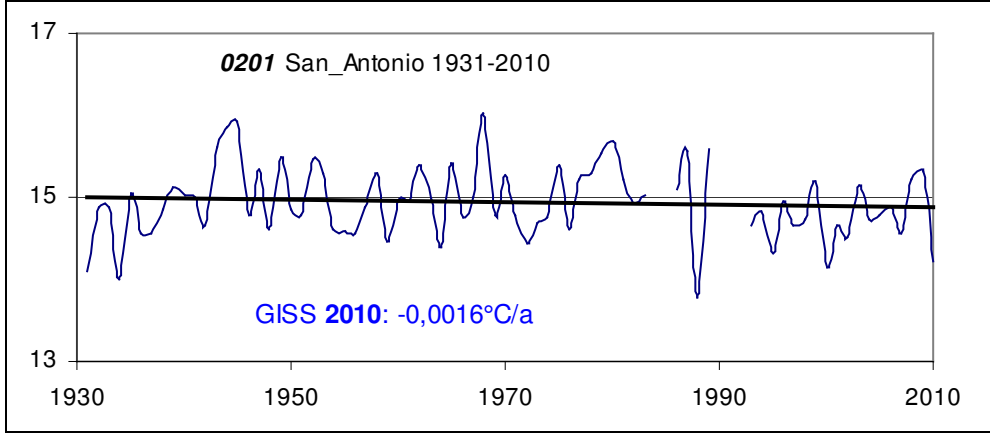
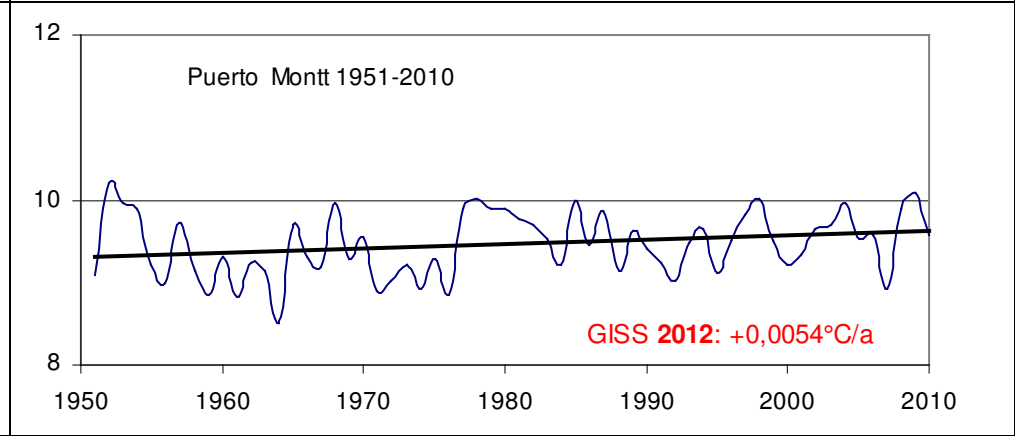
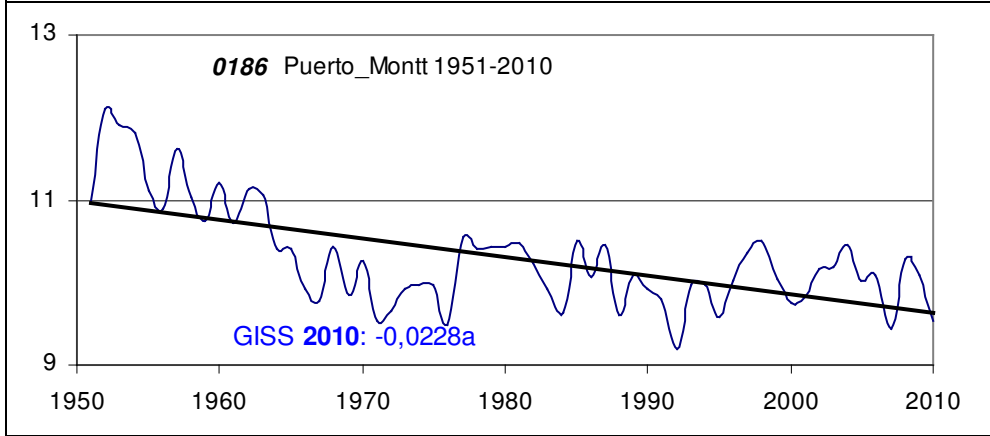
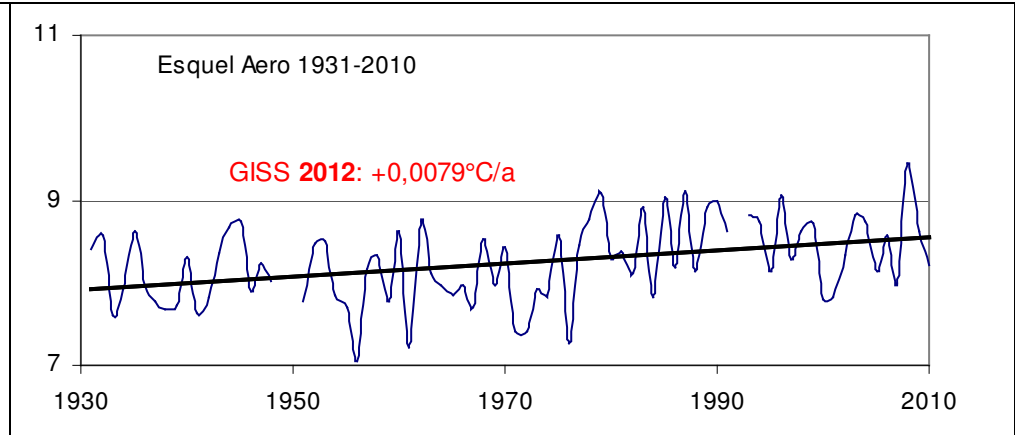
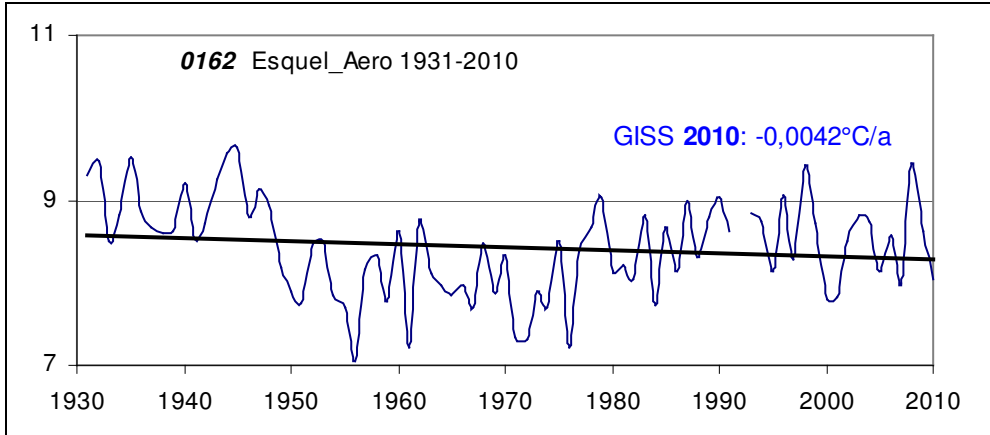
Links: NASA-GISS-Daten von 2010 Rechts: NASA-GISS-Daten von 2012

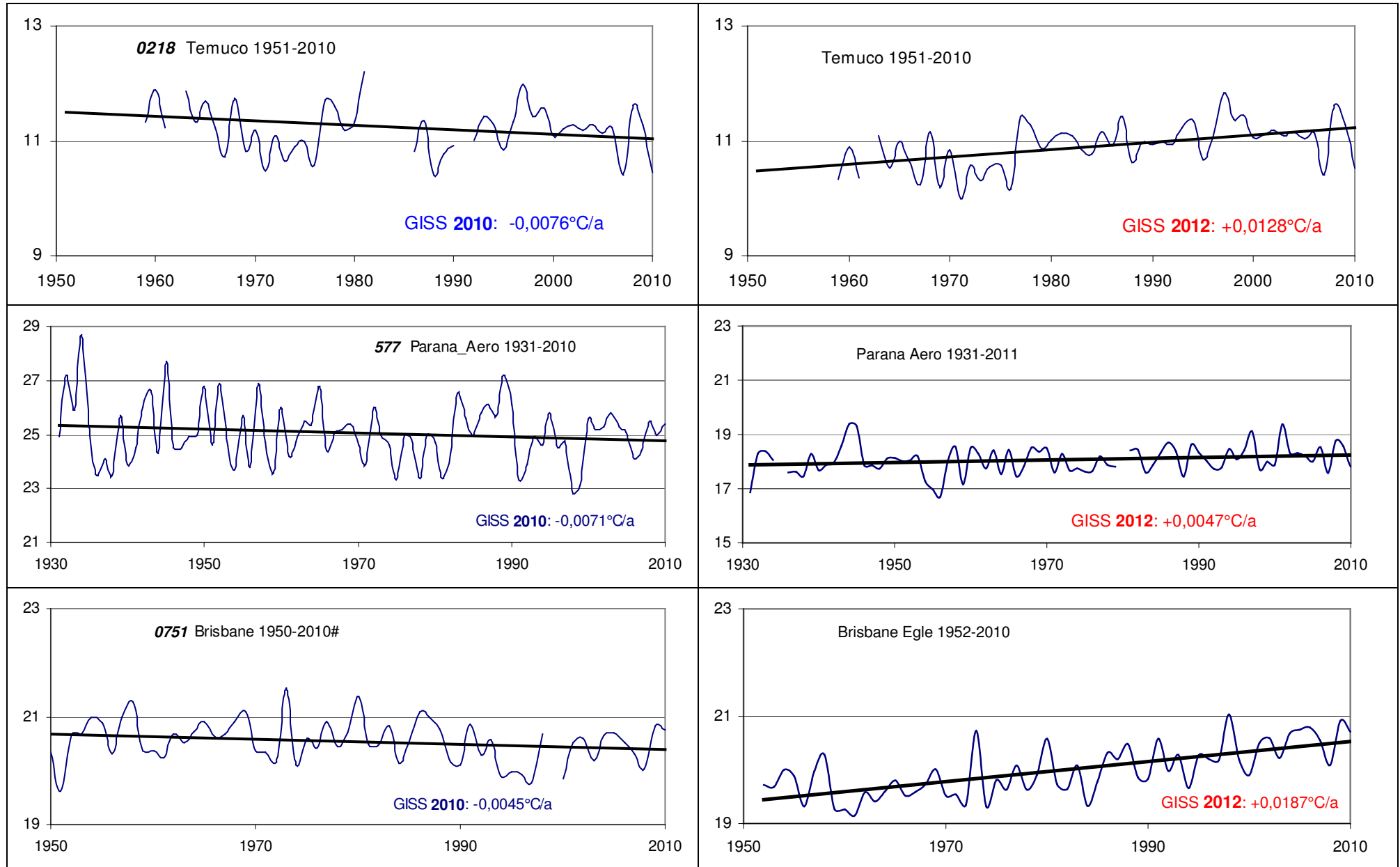
Gruppe 0: 2010 Erwärmung > Erwärmung, Gradienten unverändert, alle Werte parallel abgesenkt, Endwerte erhöht; 1 Station – 0,83%

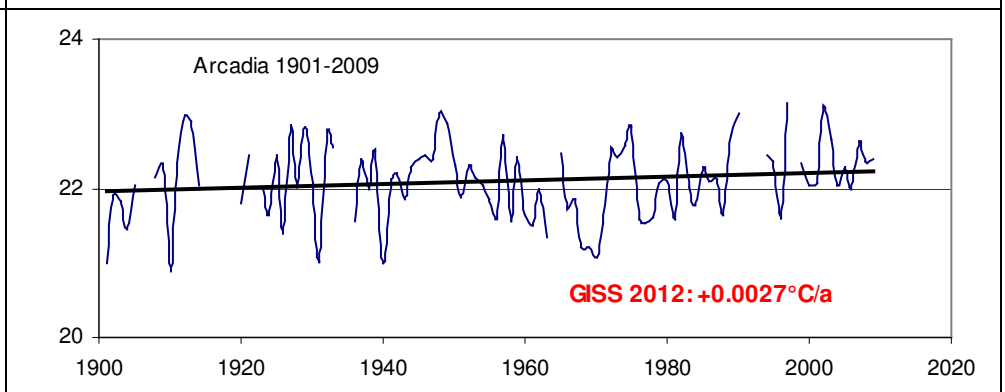
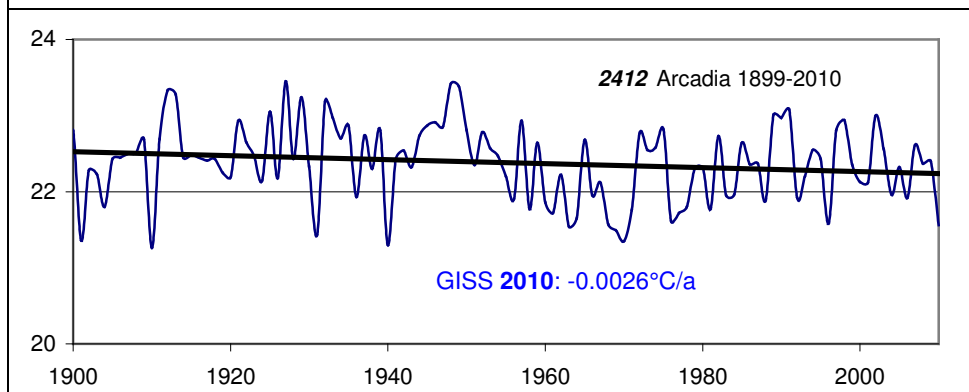
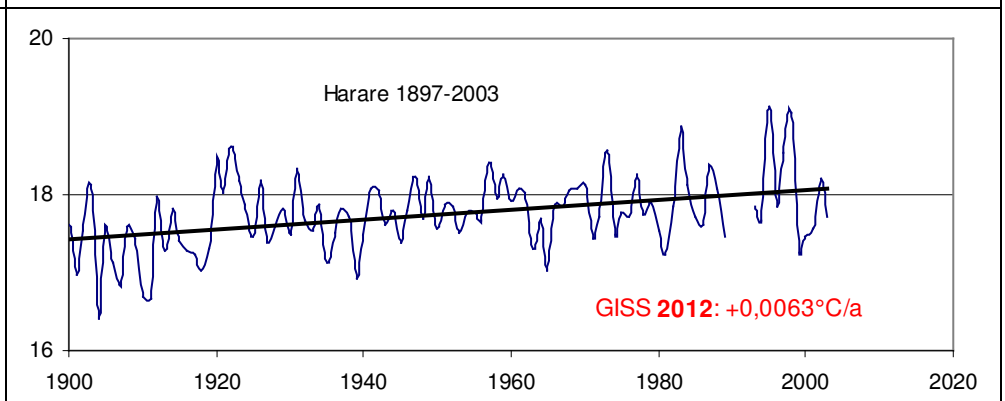
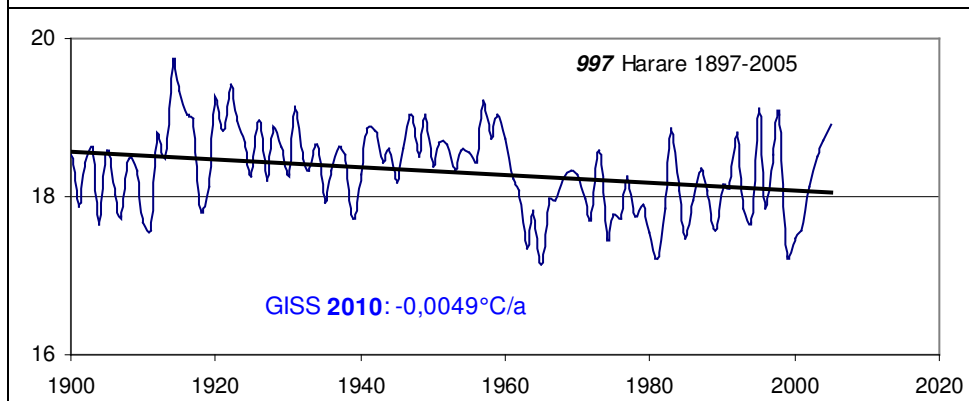
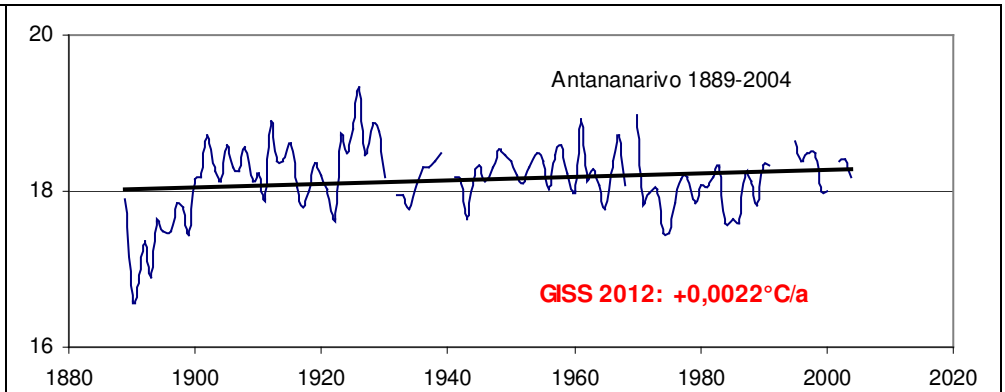
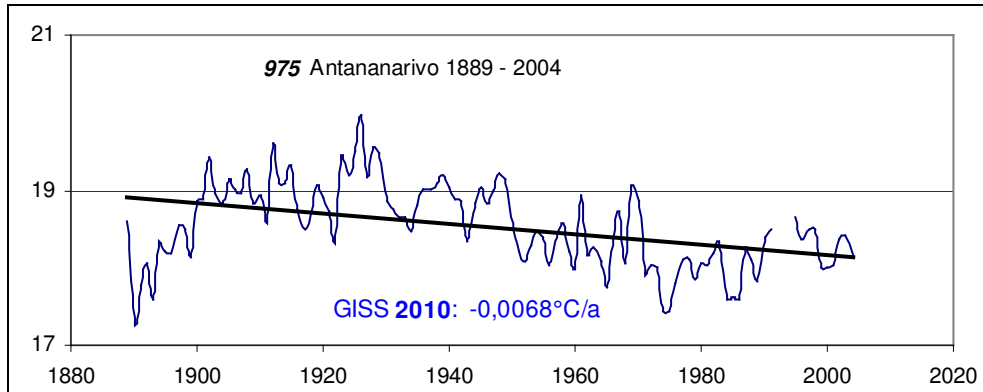


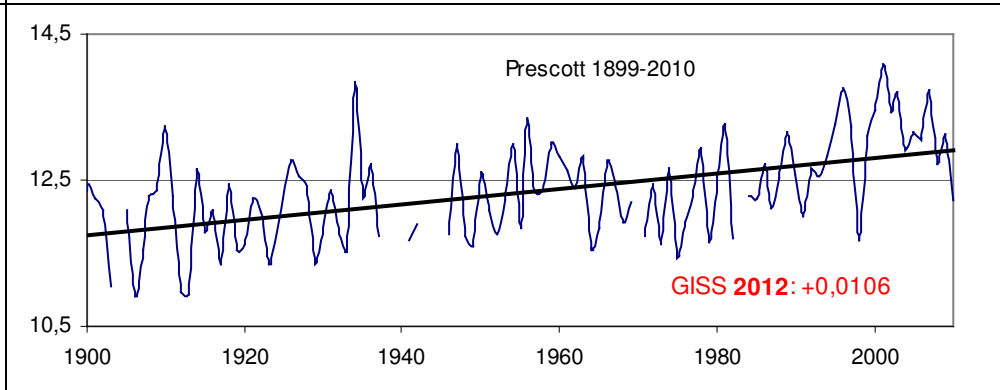
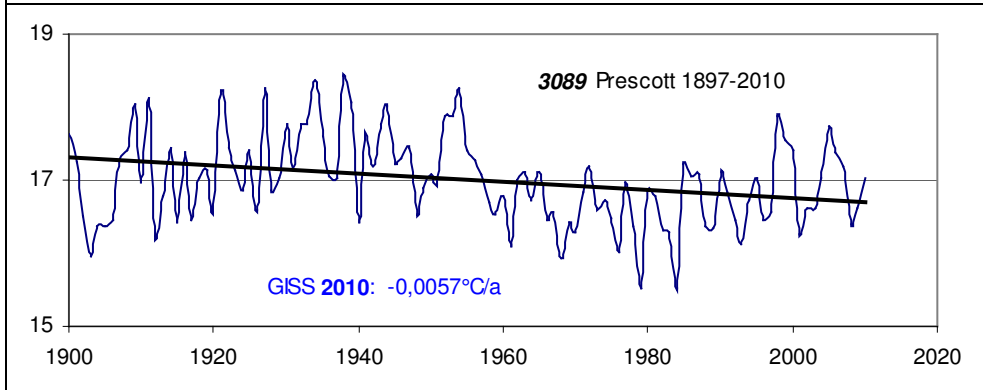
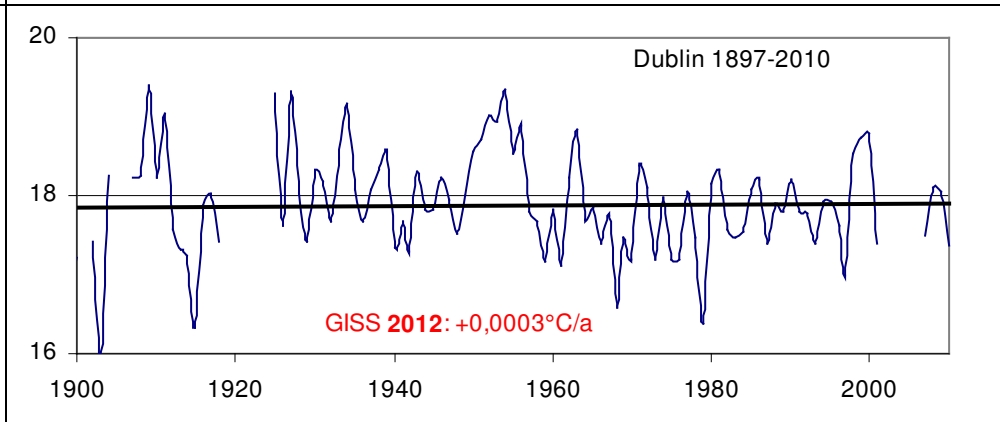
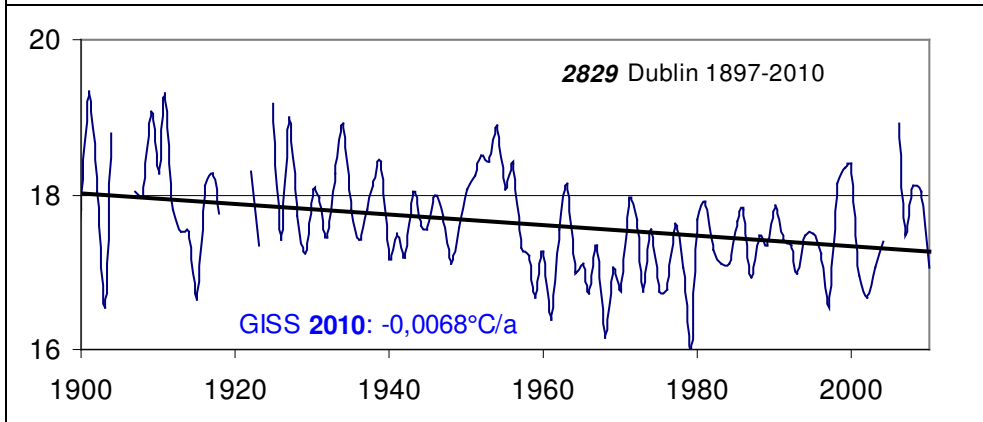
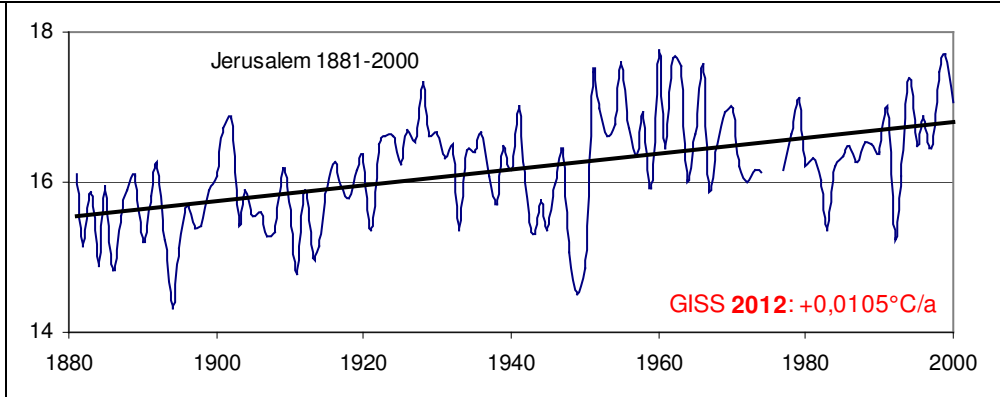
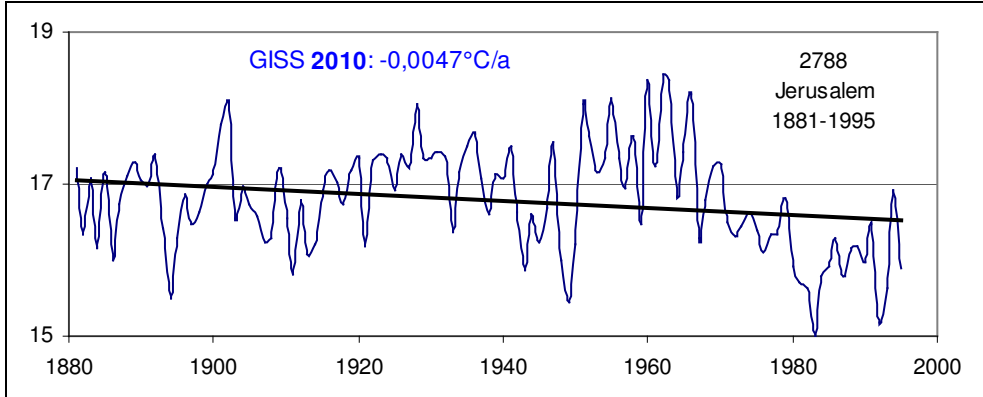
Gruppe 1: 2010 Abkühlung > 2012 Erwärmung durch Inversion; 19 Stationen von 120 – 15,83%

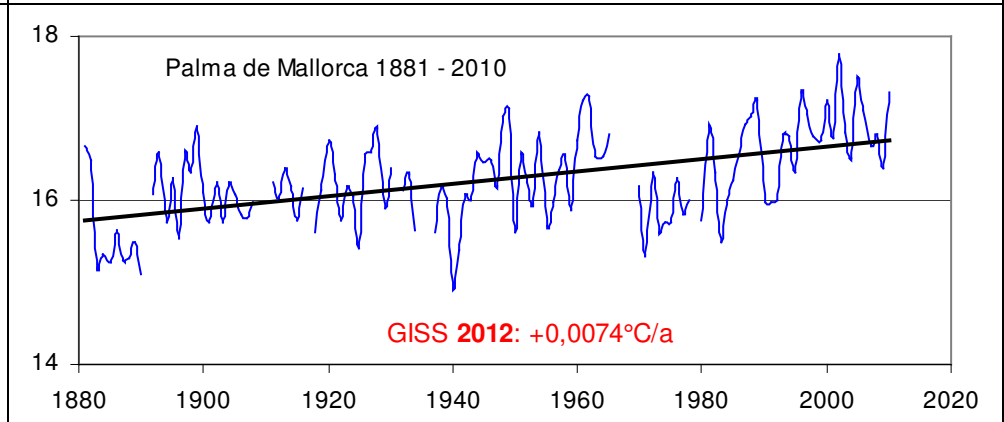
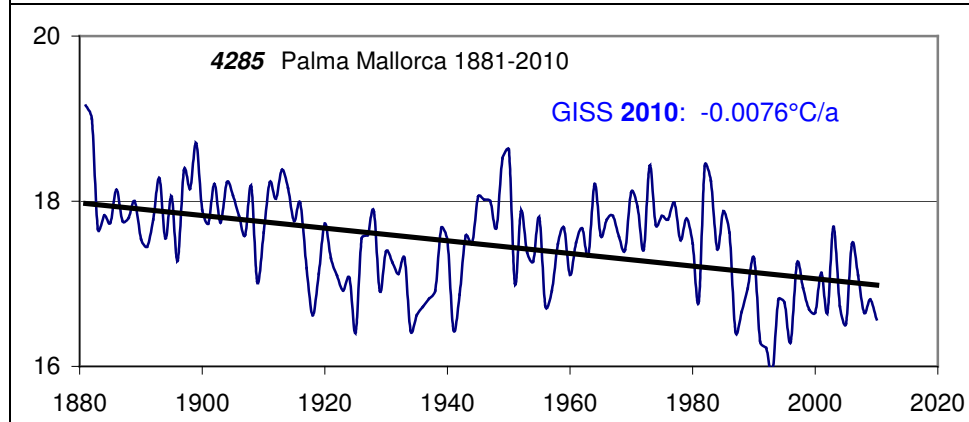
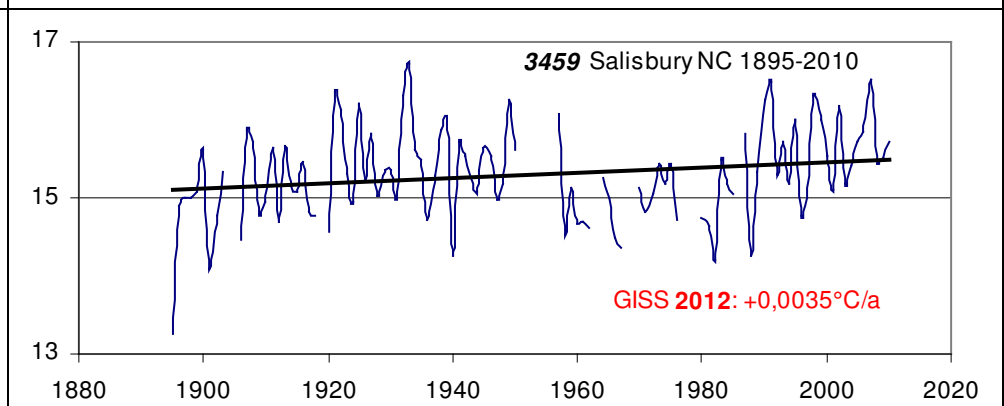
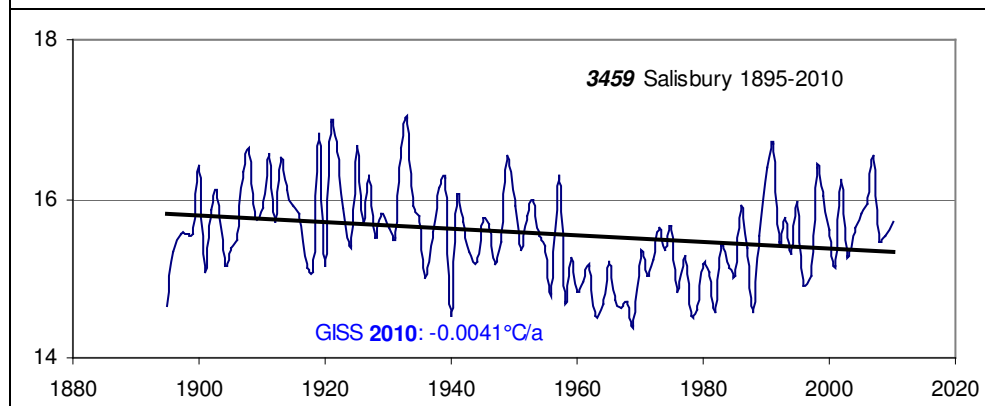
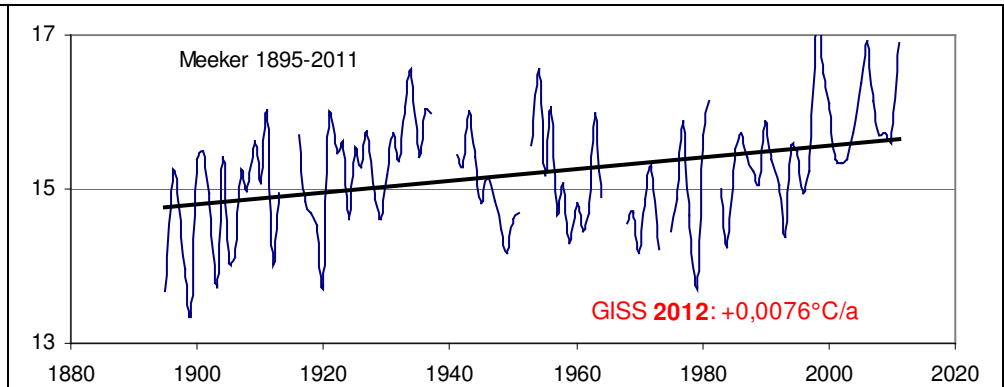
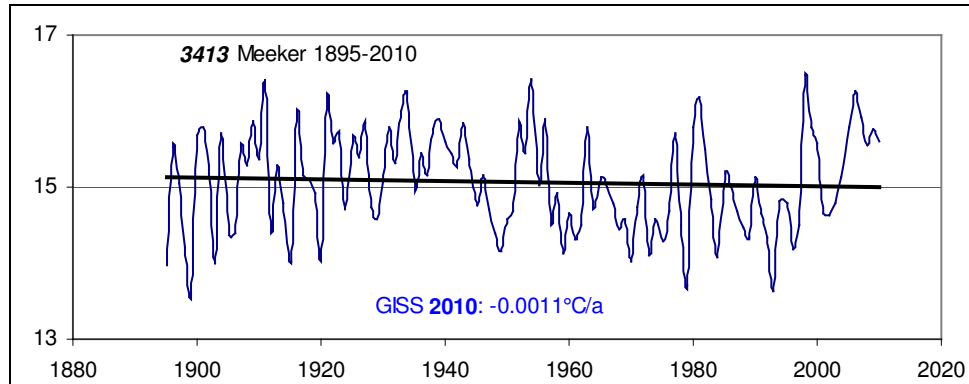


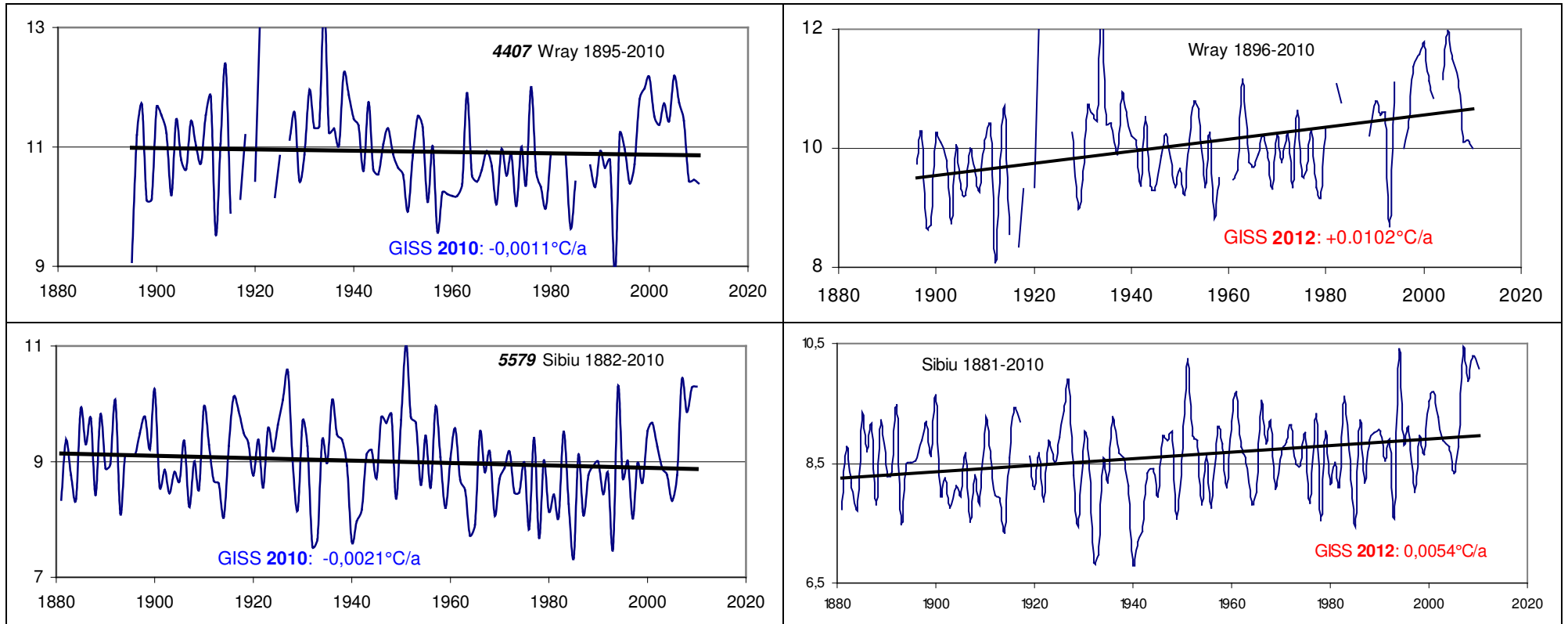




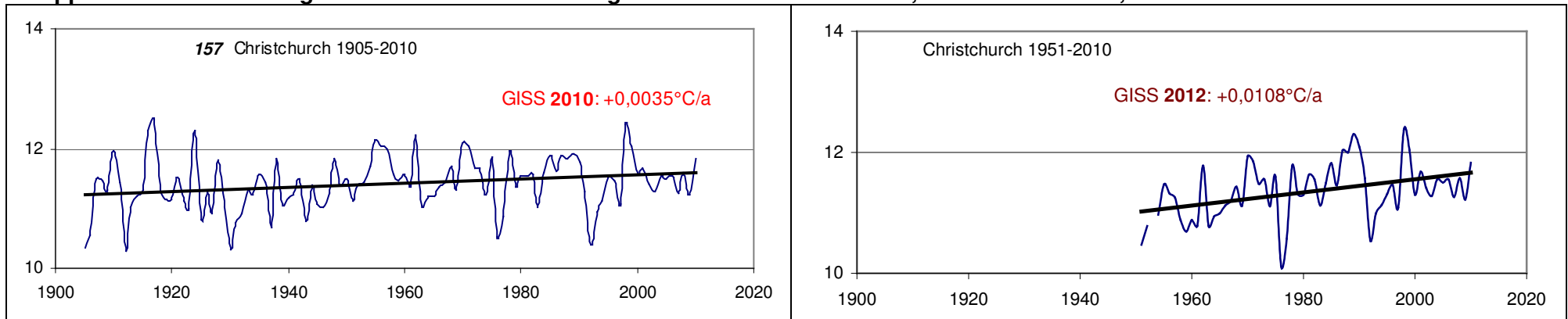


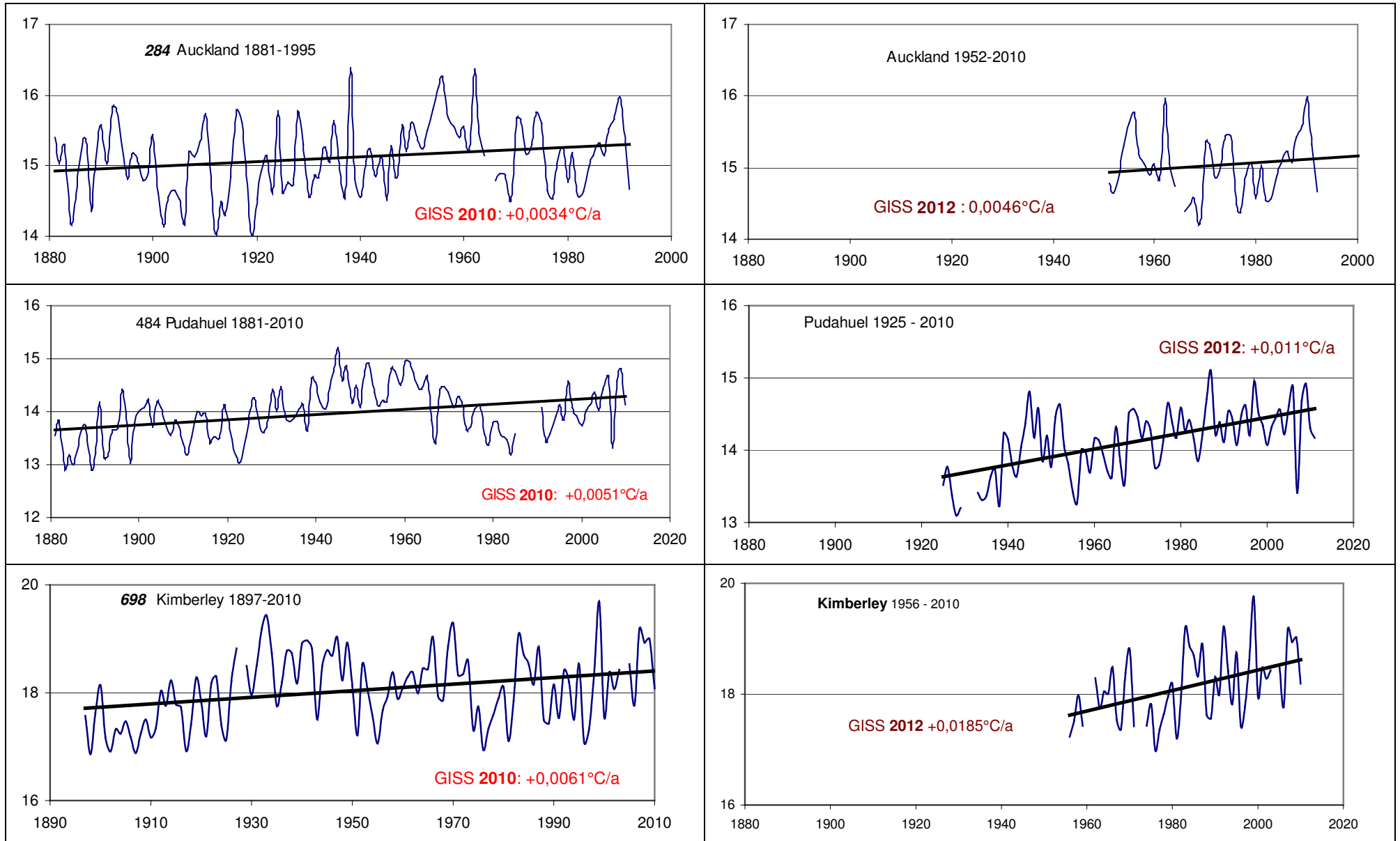


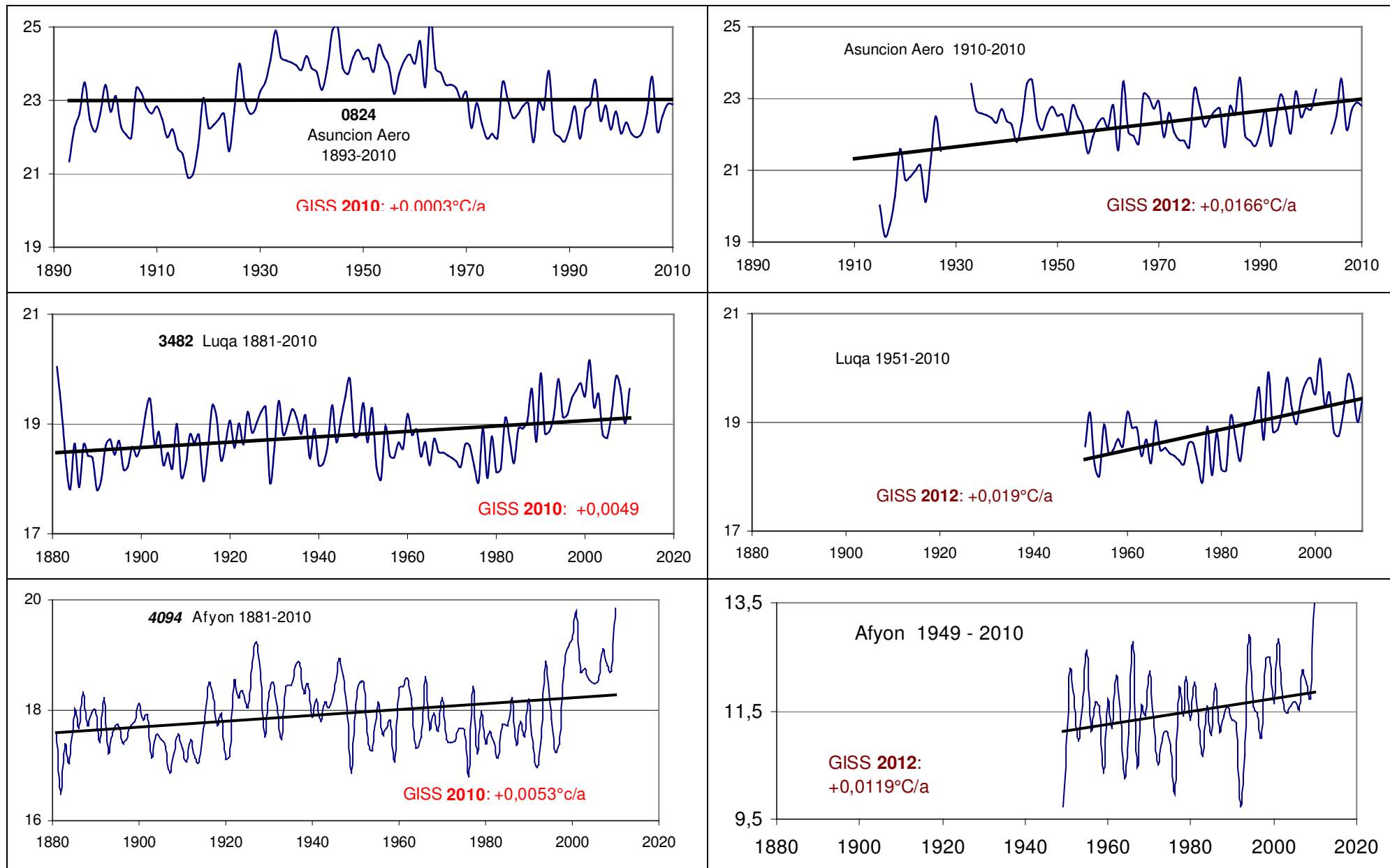


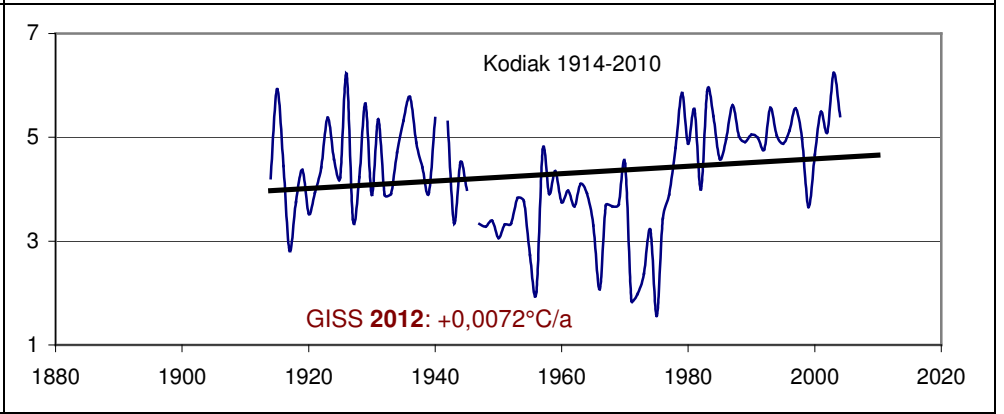
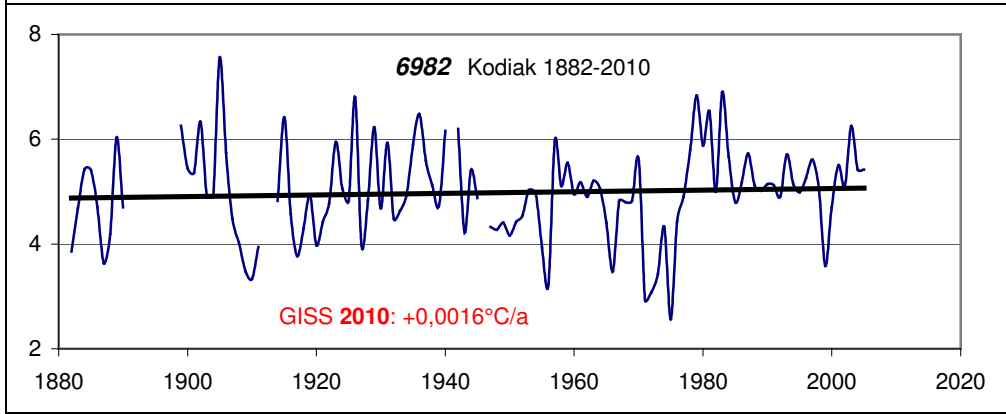
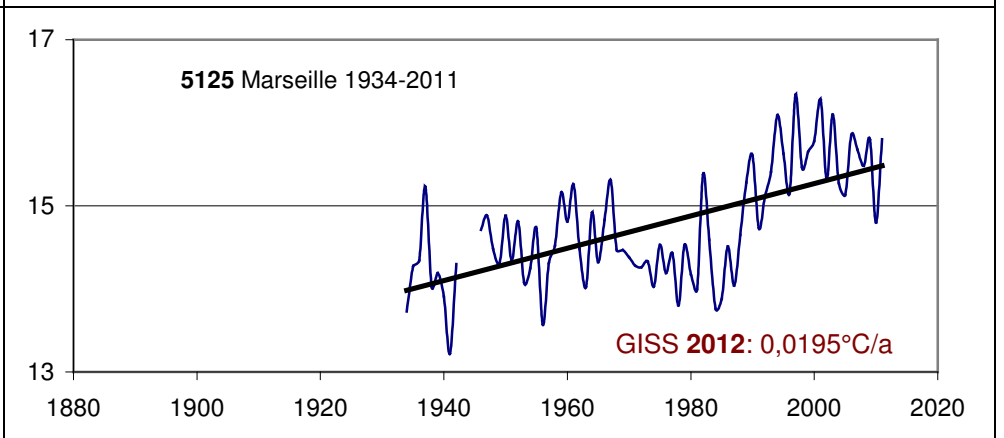
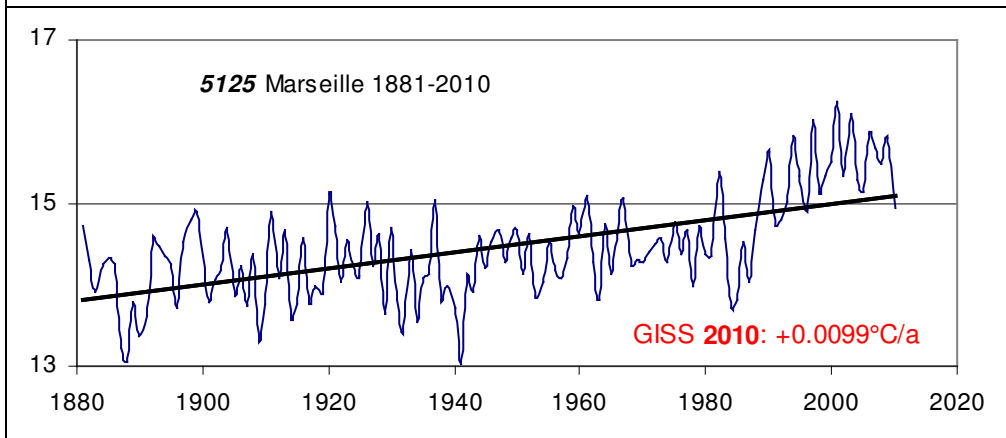
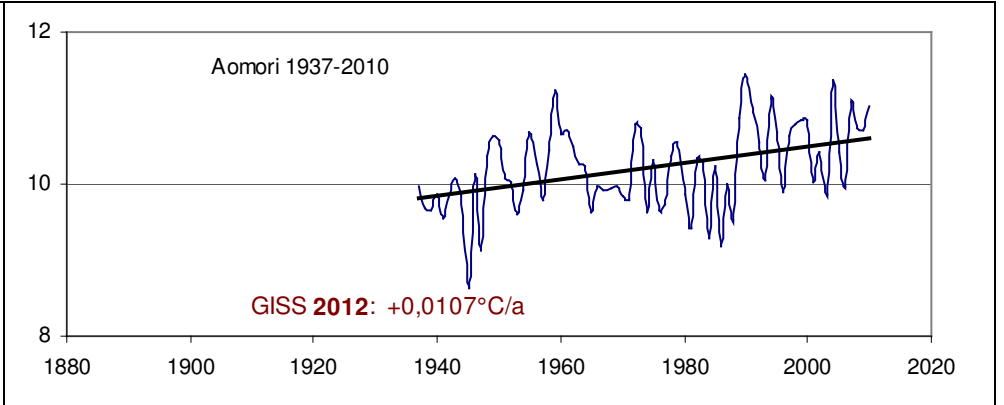
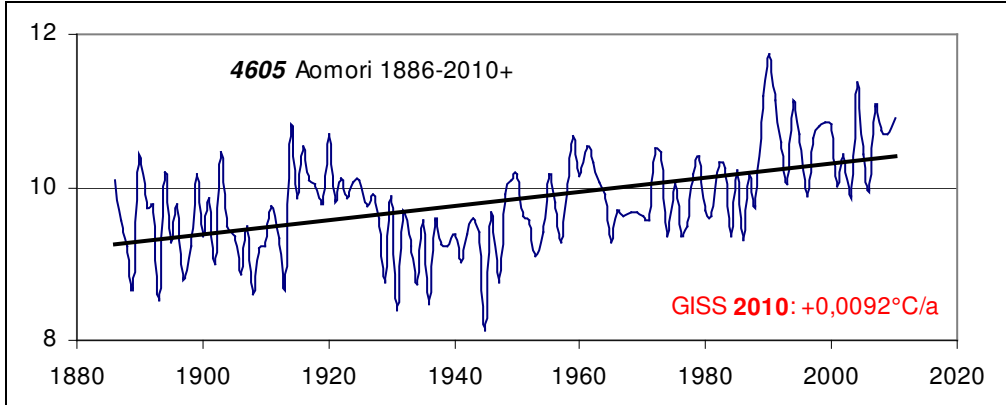


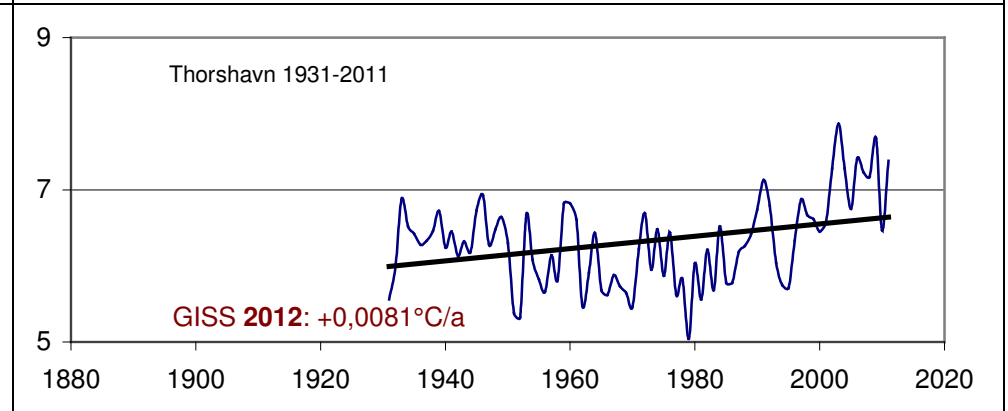
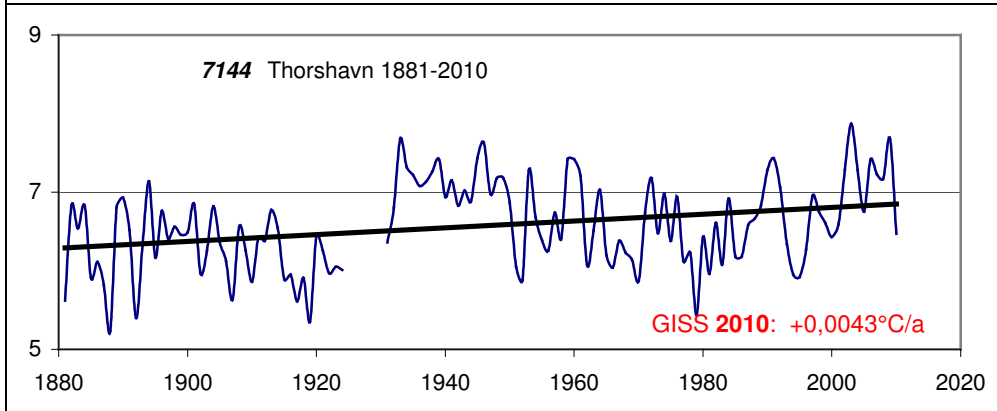
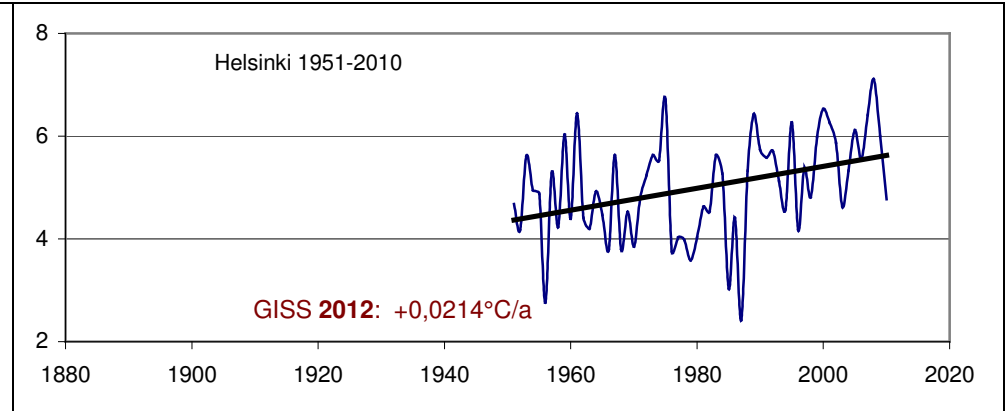
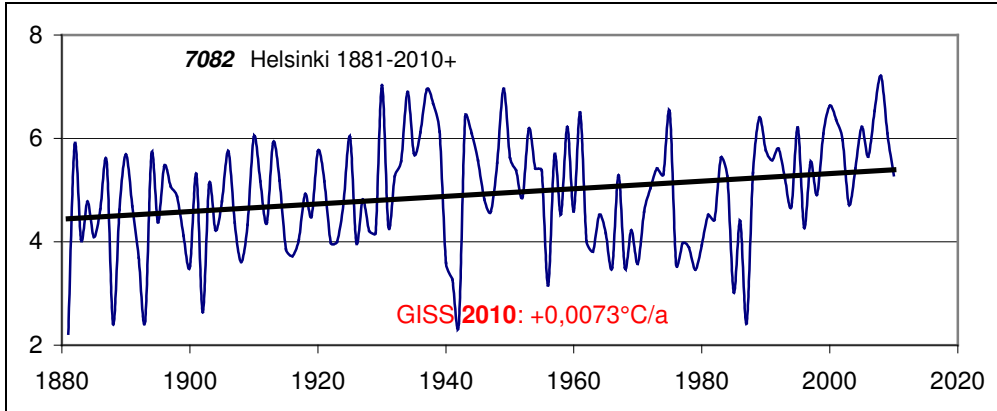
Gruppe 2: 2010 Erwärmung > 2012 stärkere Erwärmung durch Löschen von Daten; 12 Stationen – 10,0%



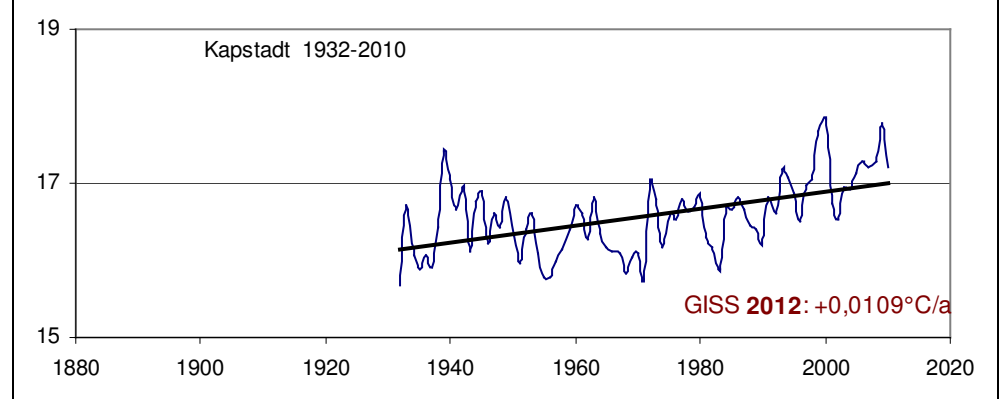
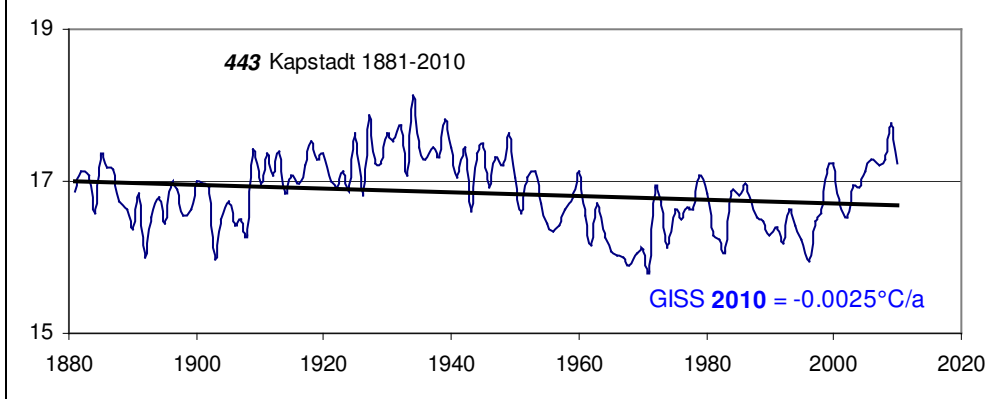


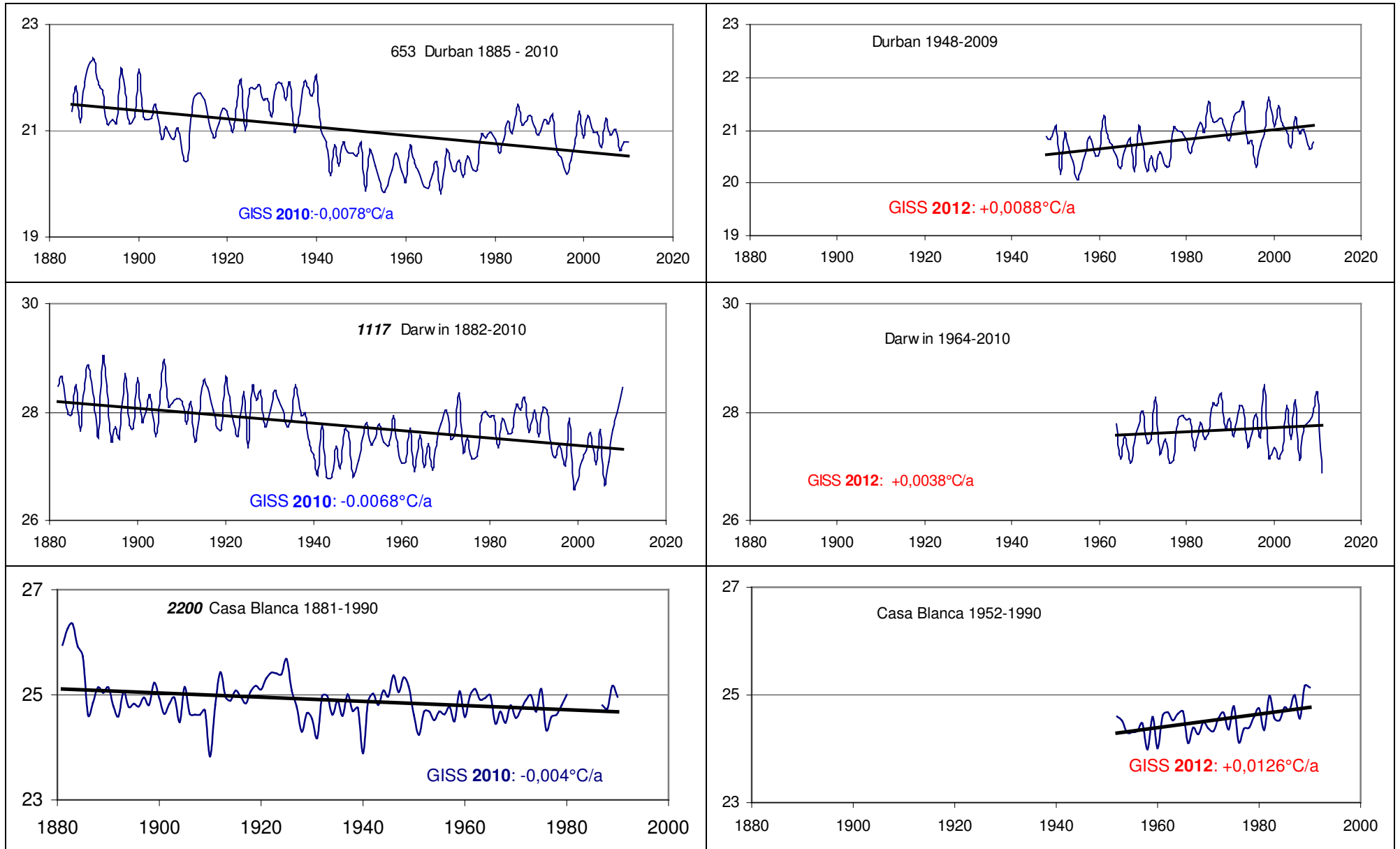


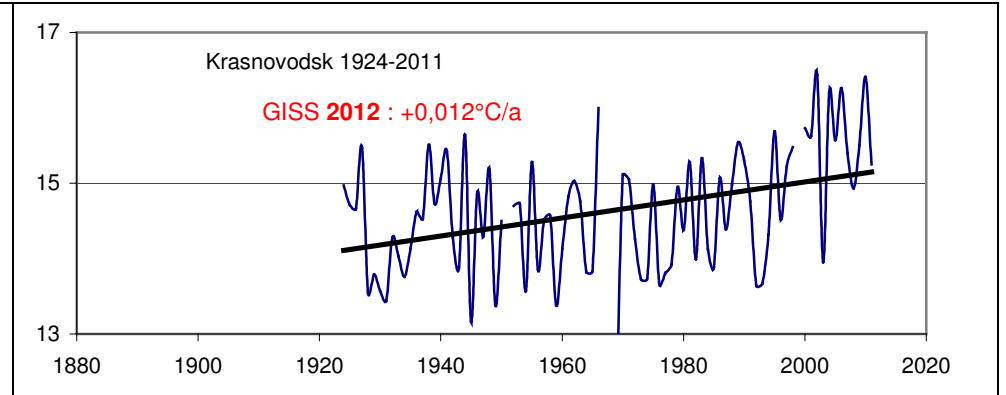
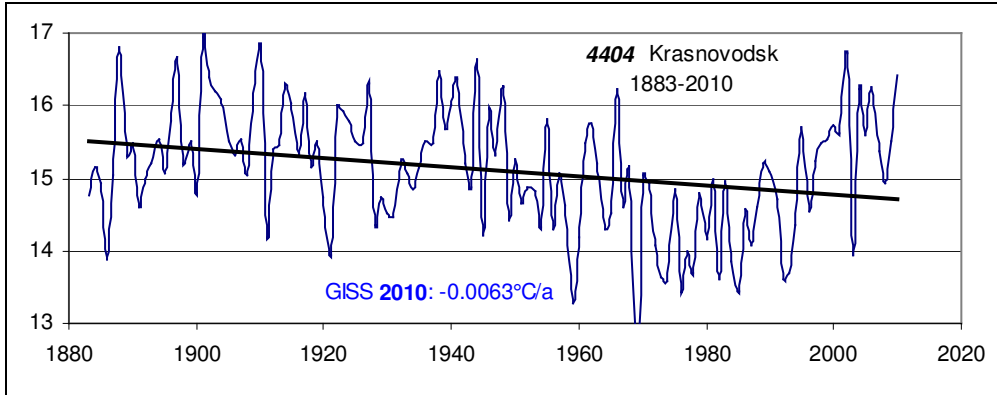




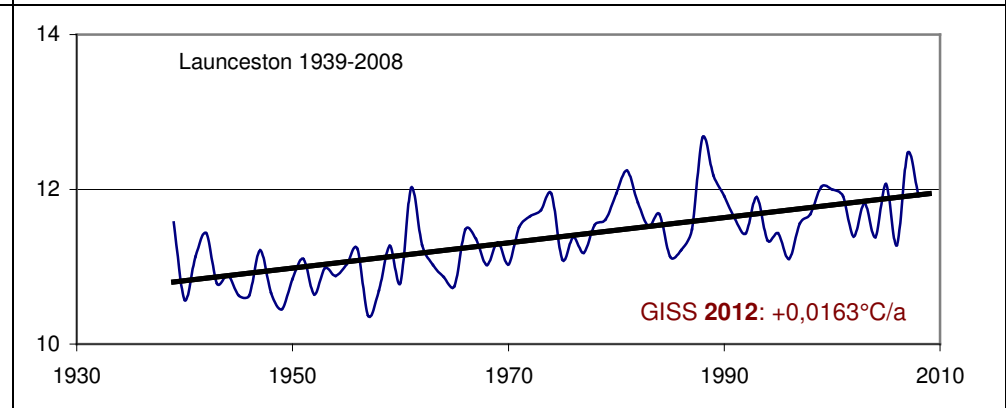
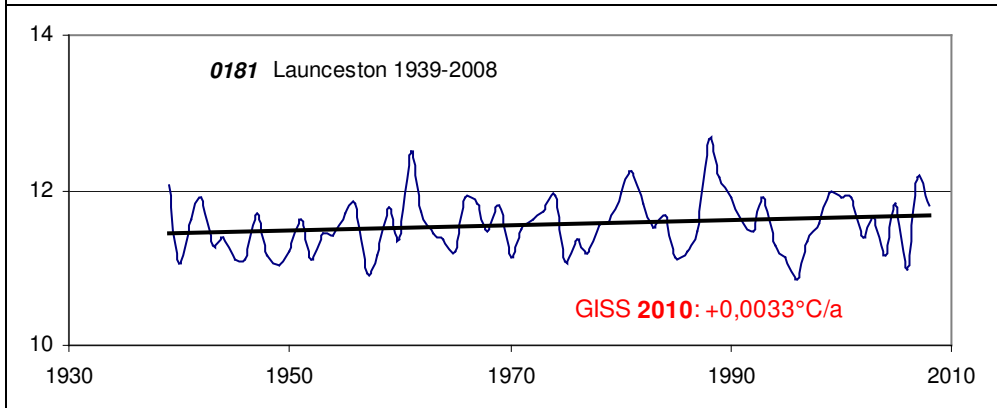
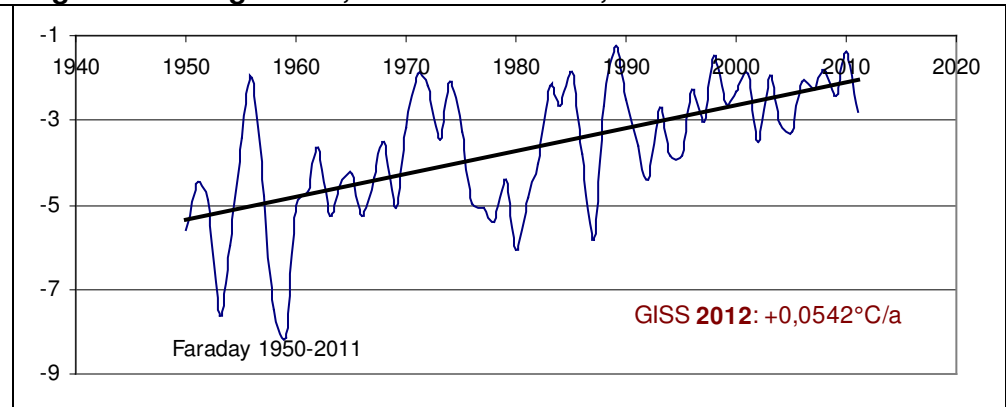
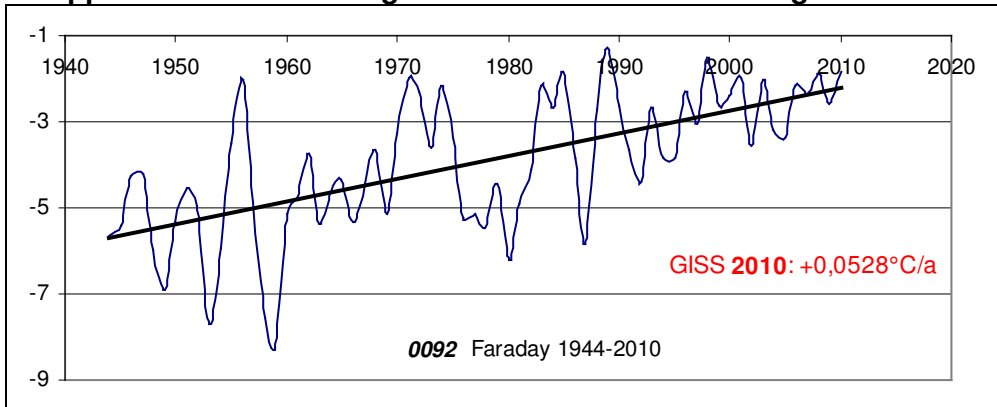
Gruppe 3: 2010 Abkühlung > 2012 Erwärmung durch Löschen von Daten, 5 Stationen – 4,17 %

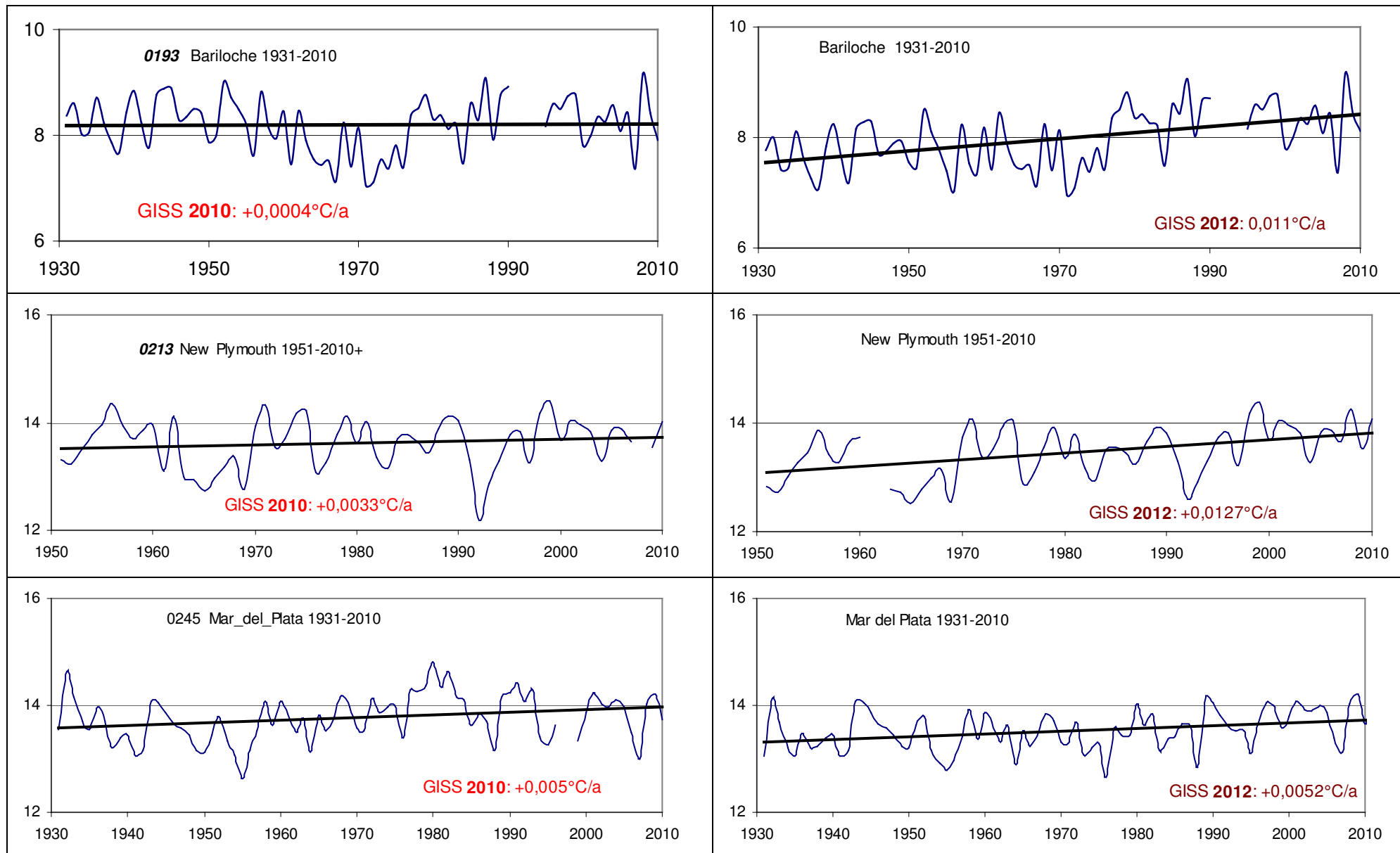


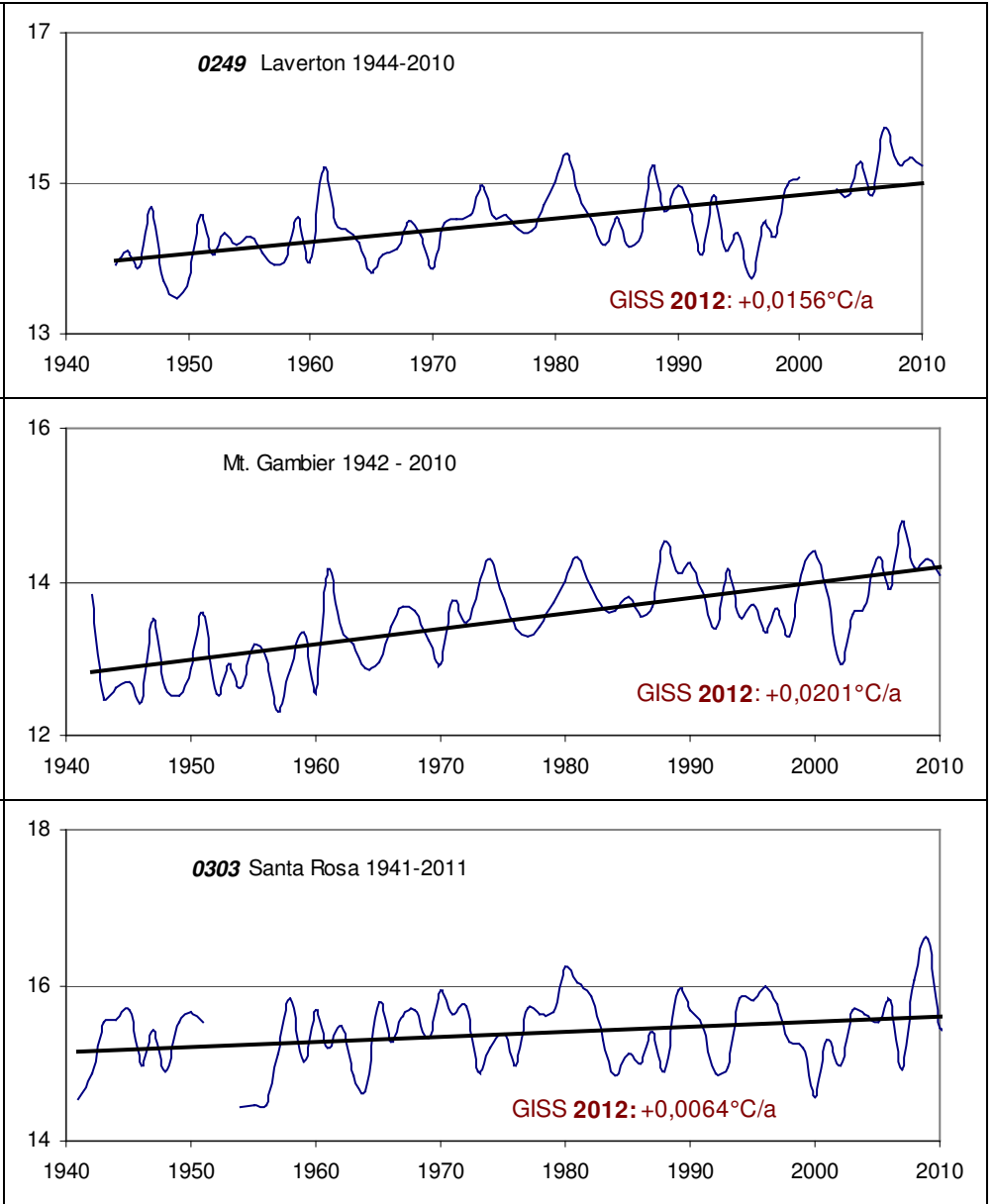
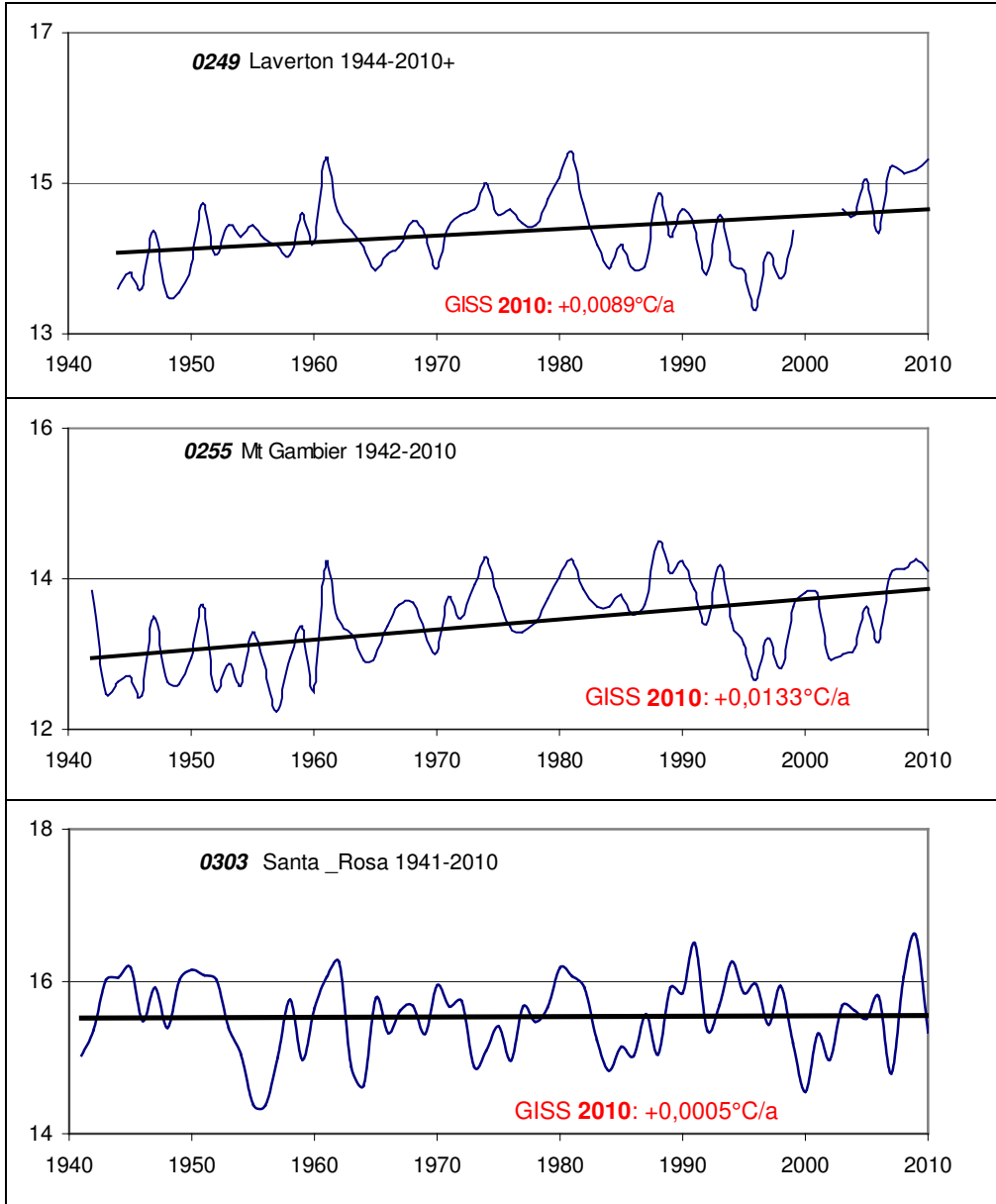


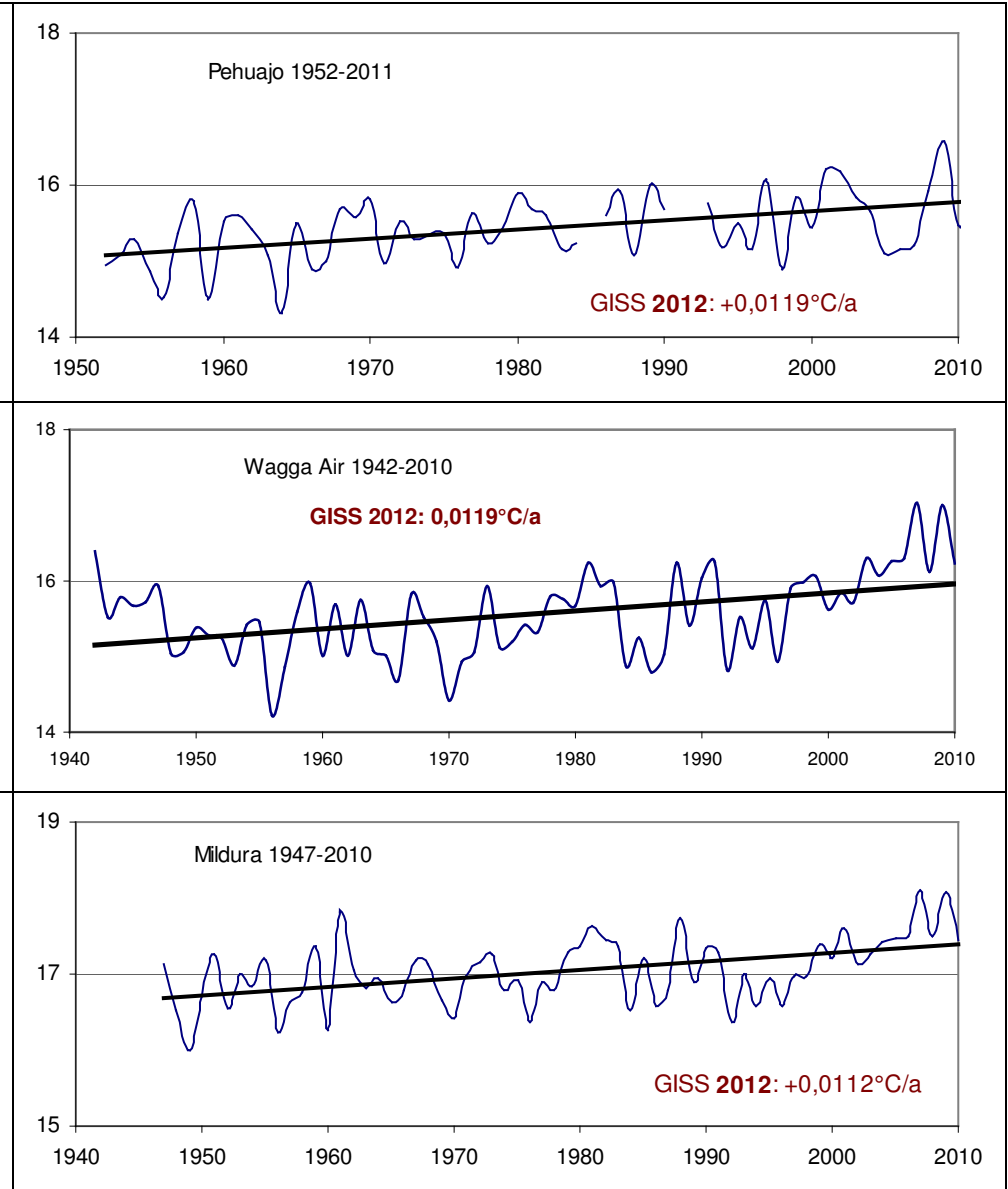
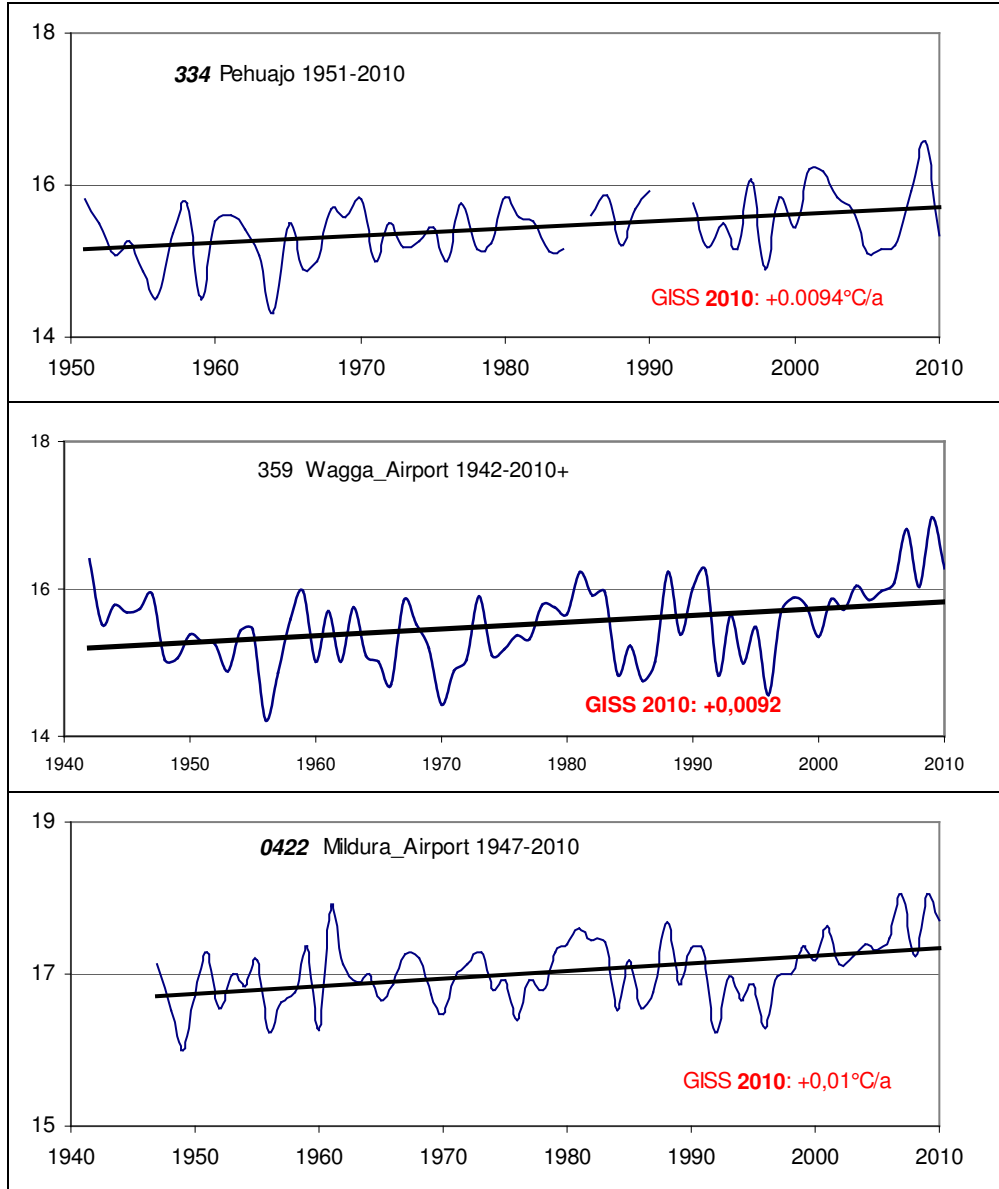


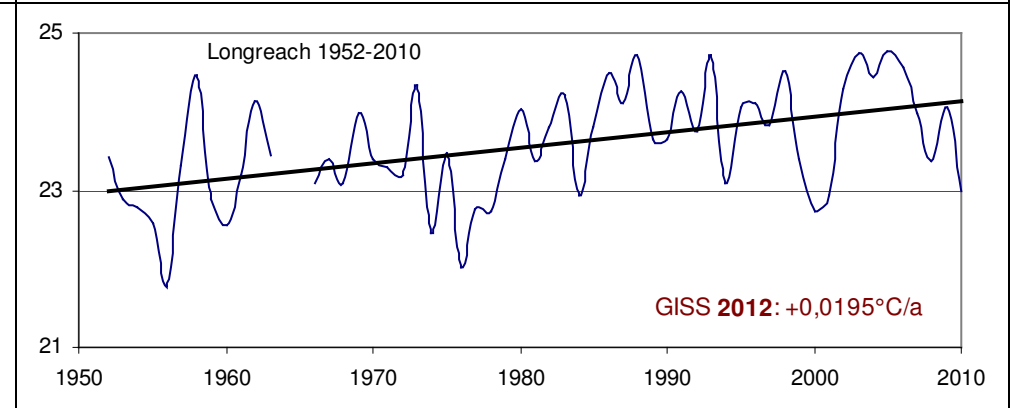
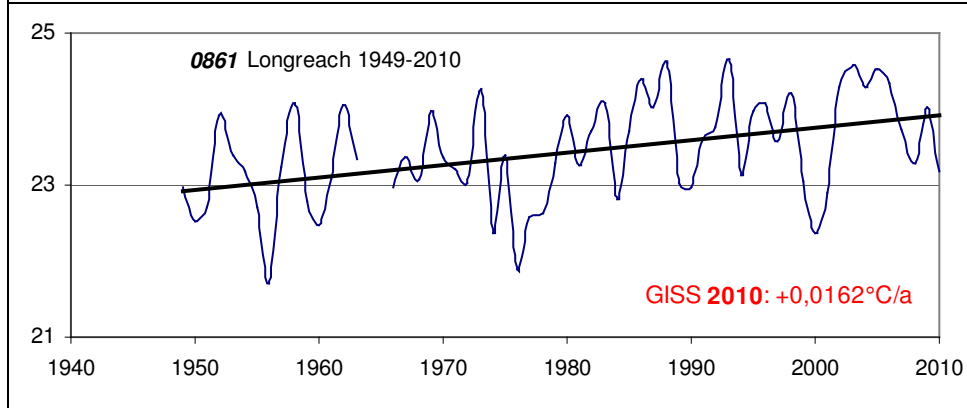
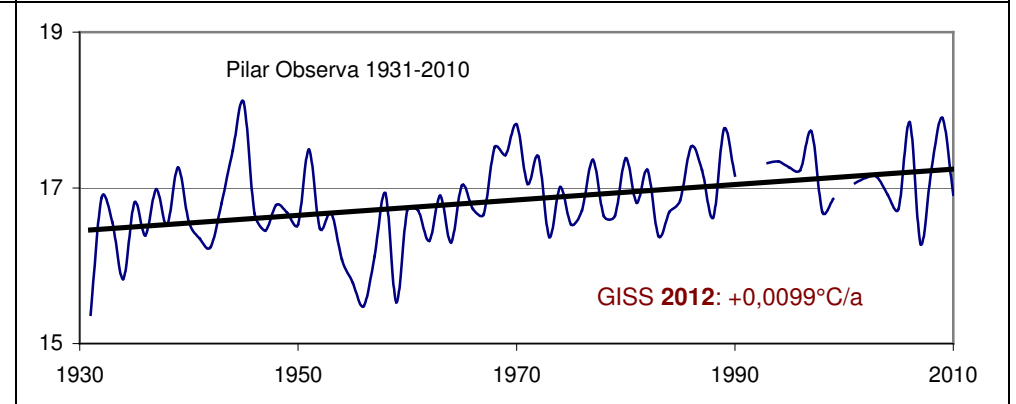
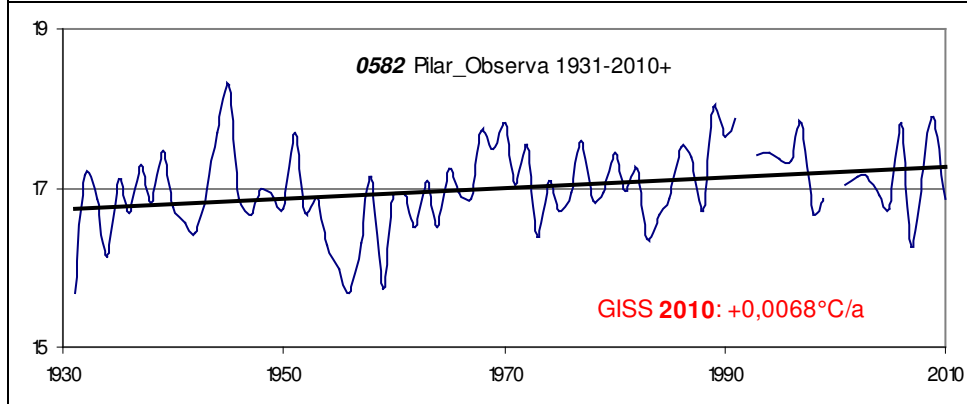
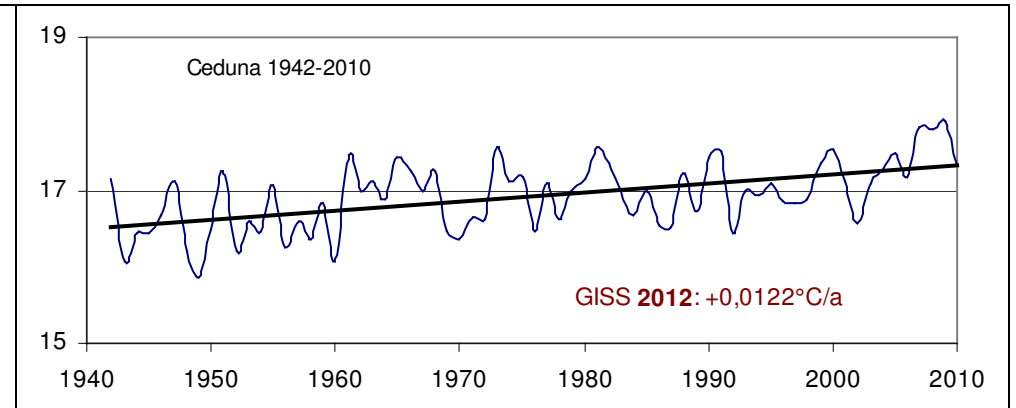
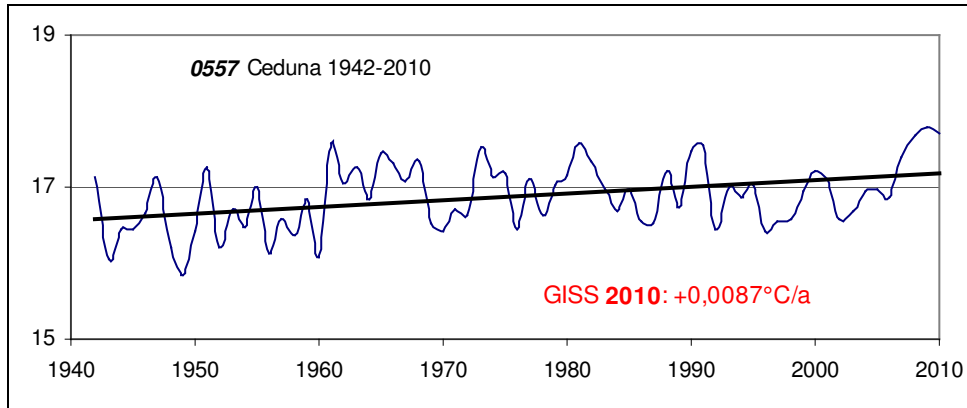
Gruppe 4: 2010 Erwärmung > 2012 stärkere Erwärmung durch Absenkung von Anfangswerte; 41 Stationen – 34,2 %

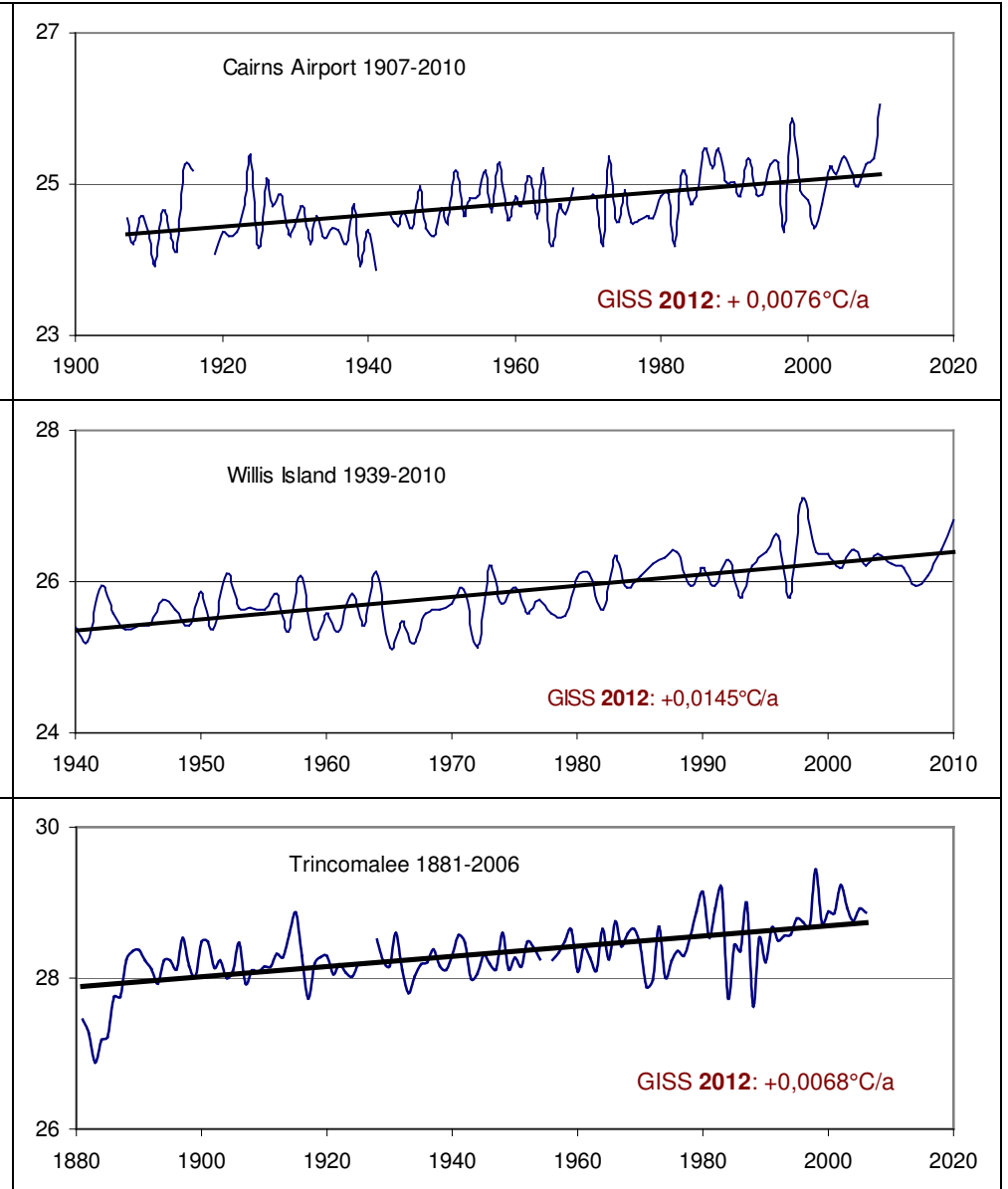
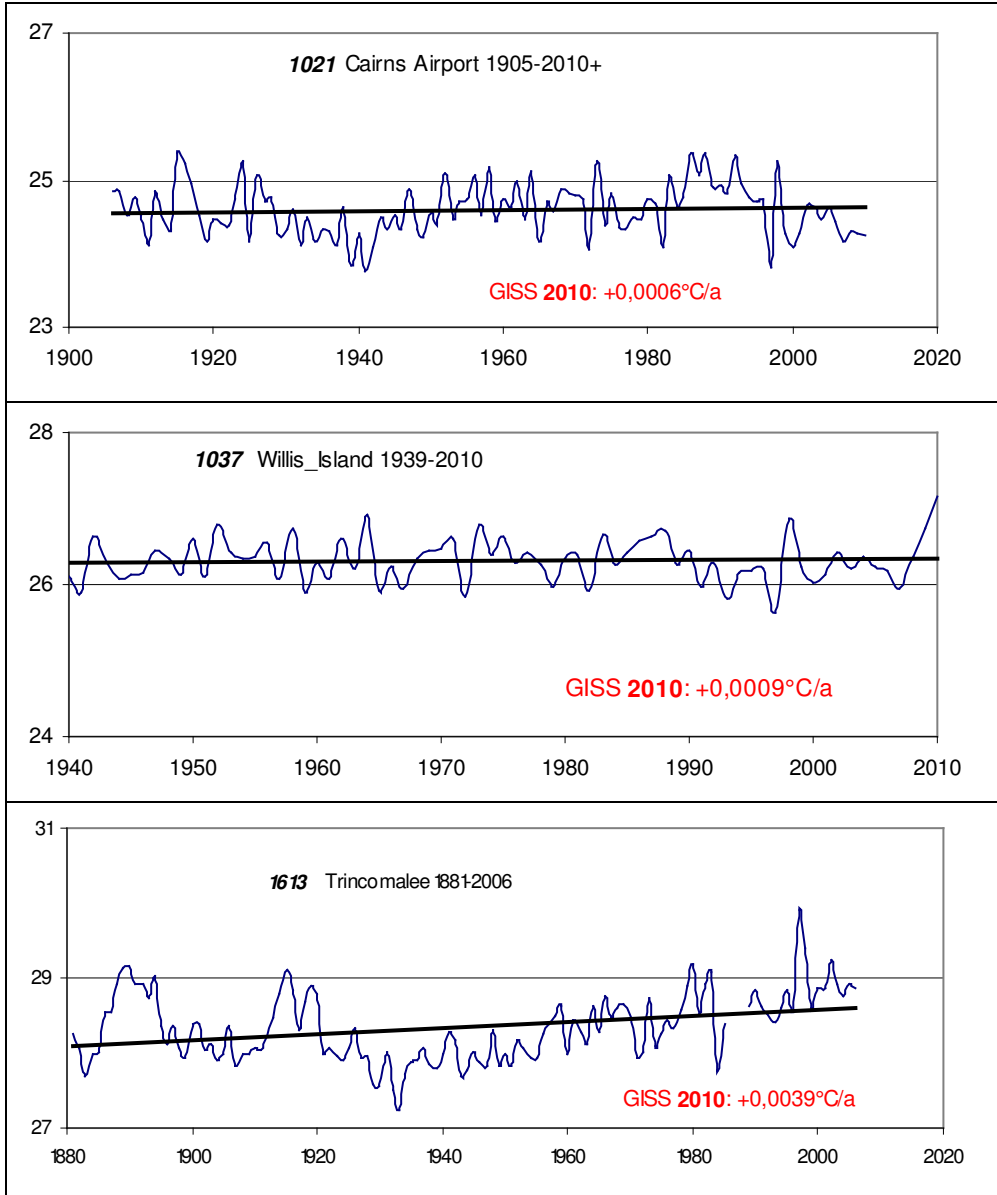


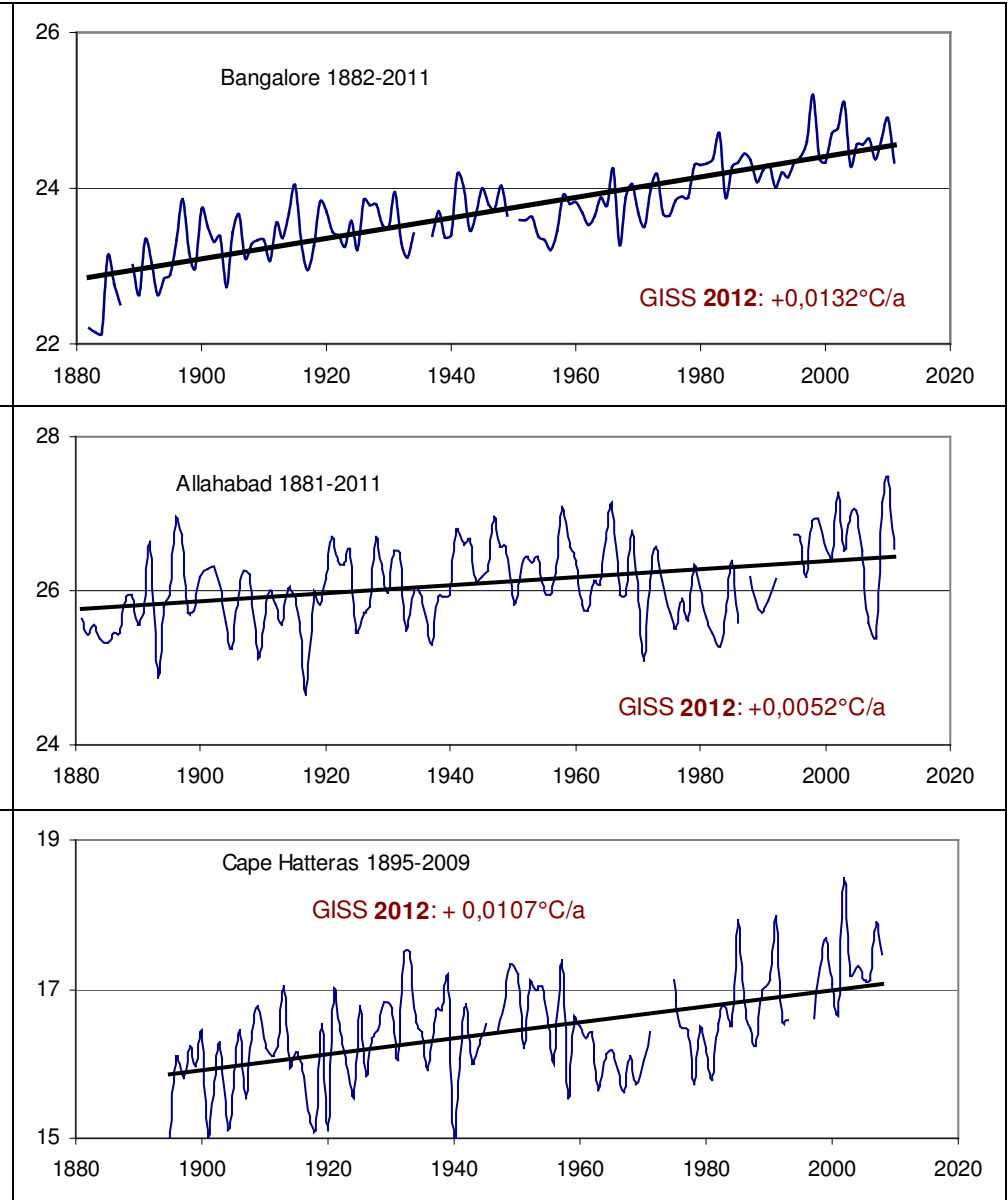
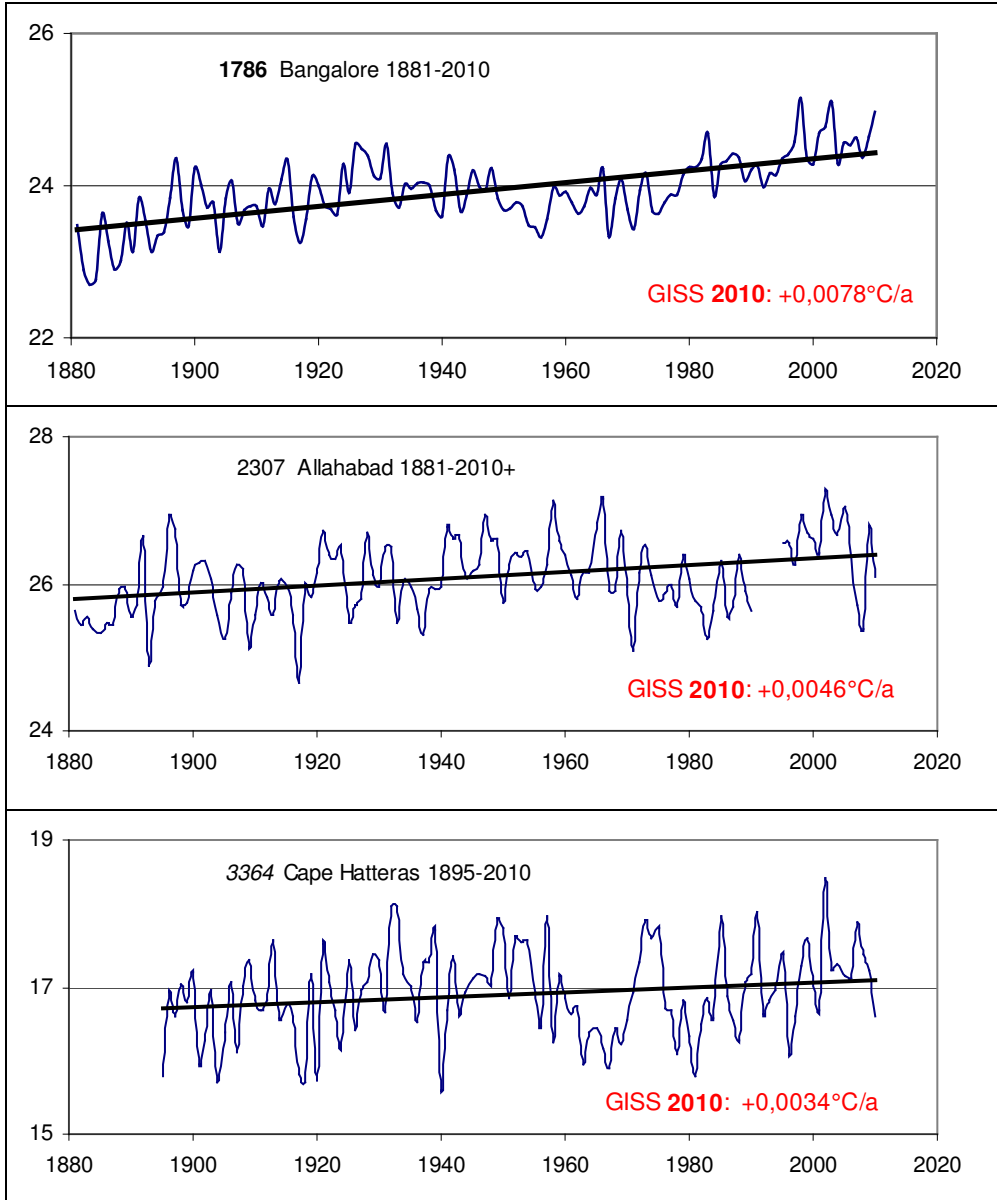


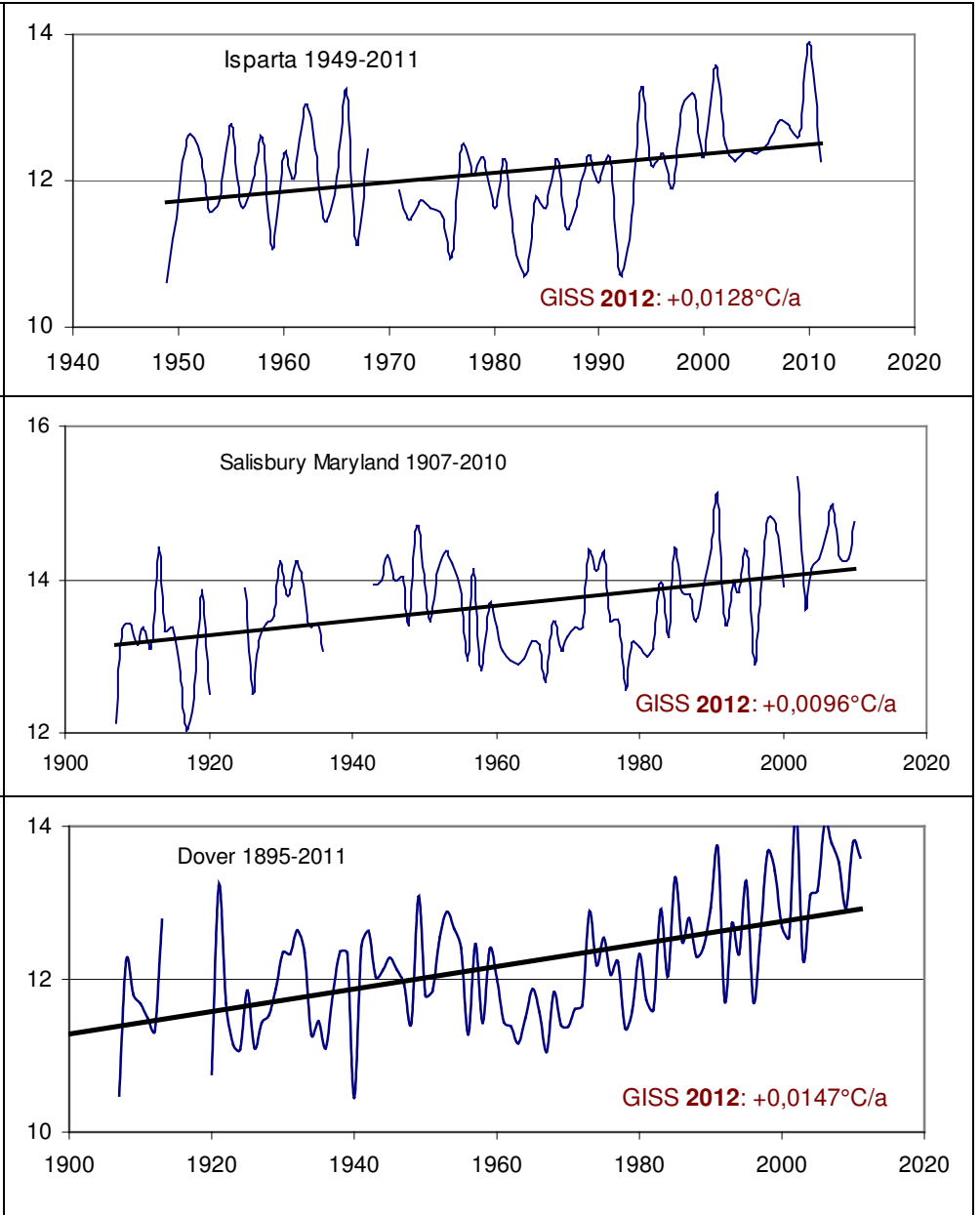
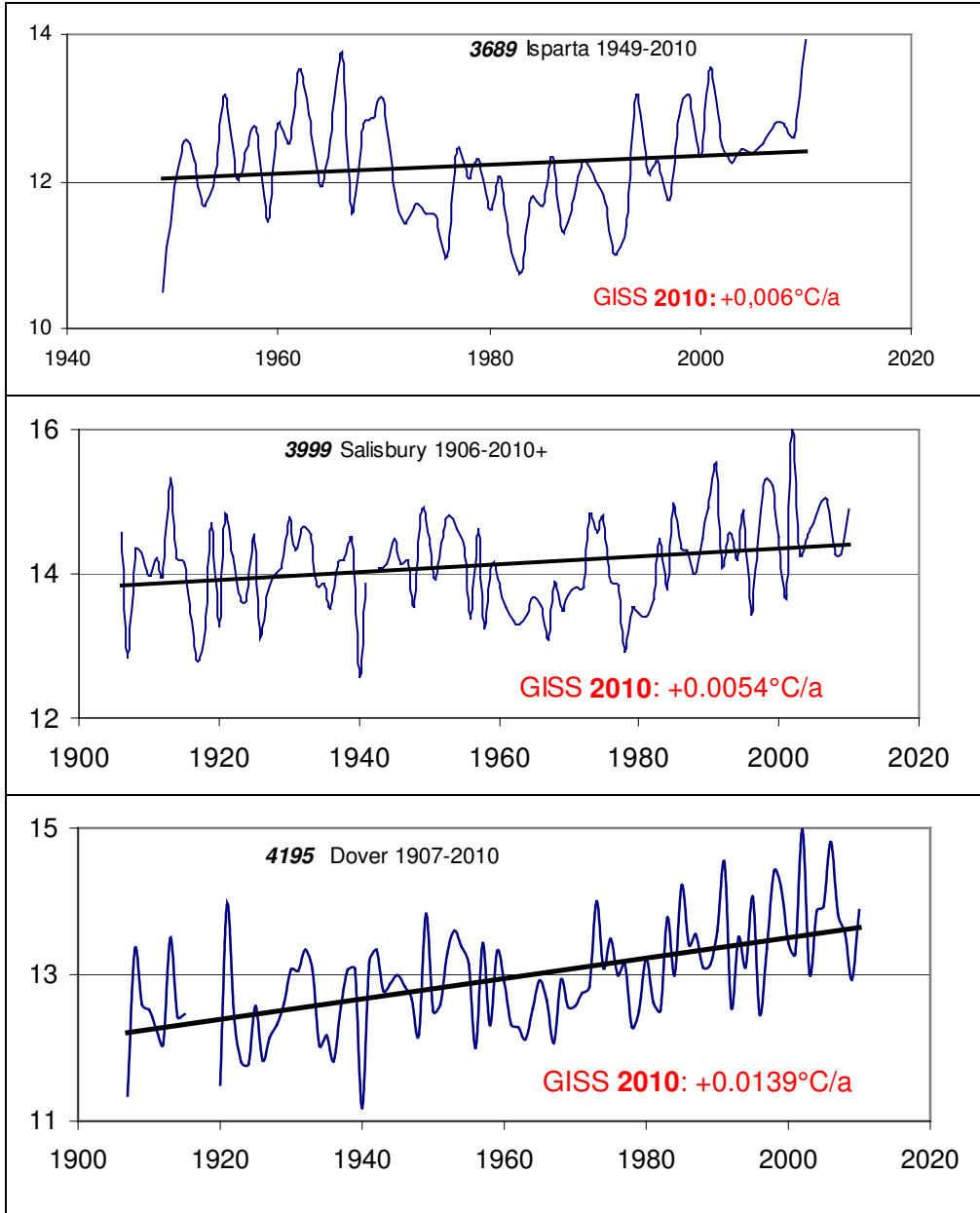


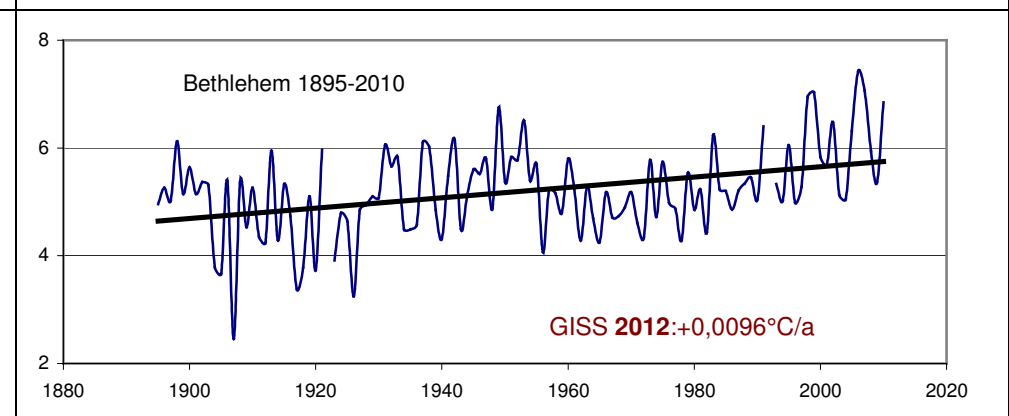
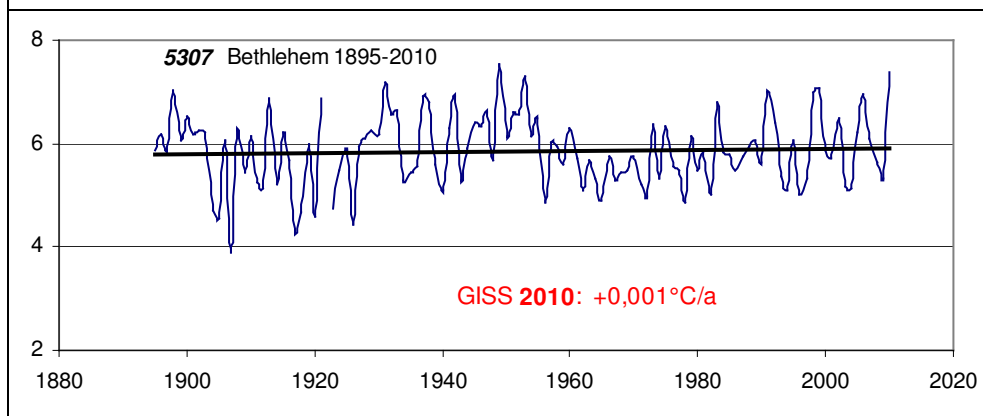
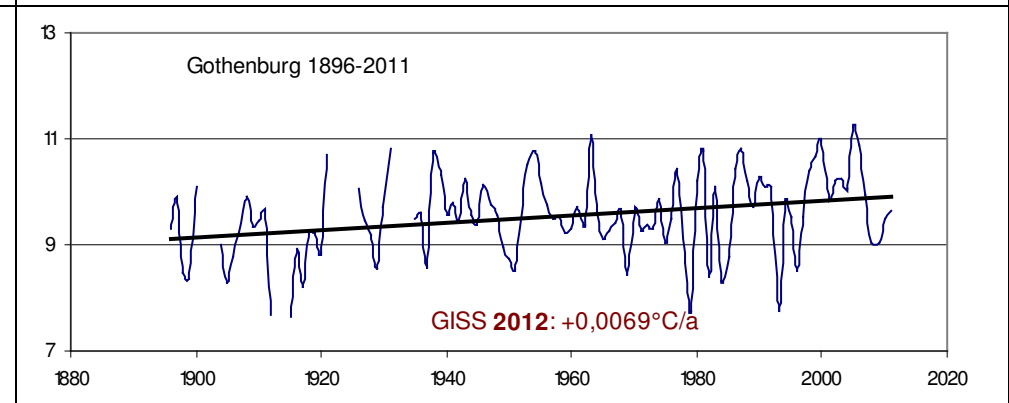
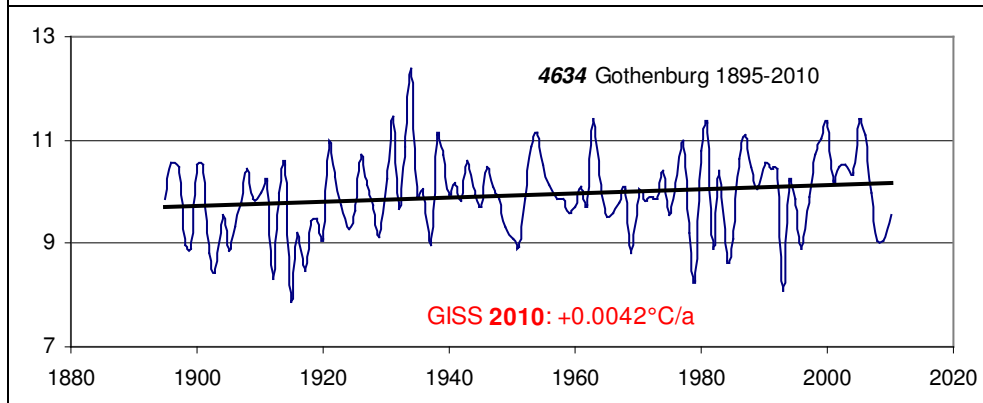
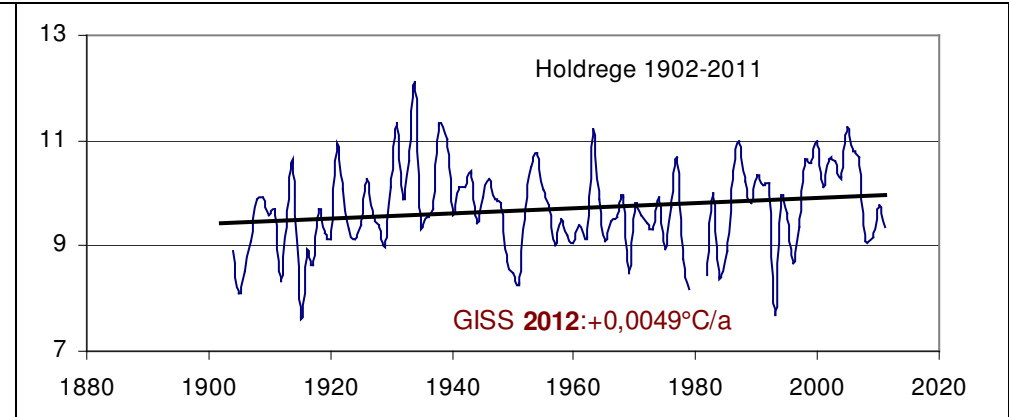
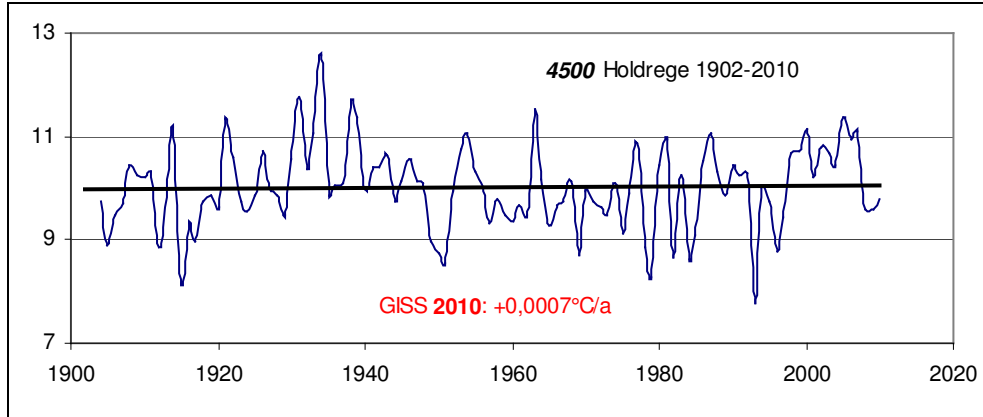


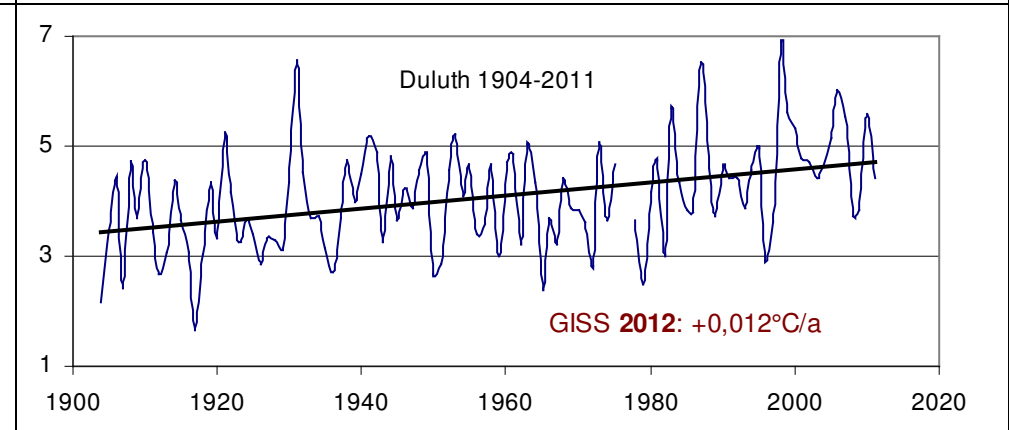
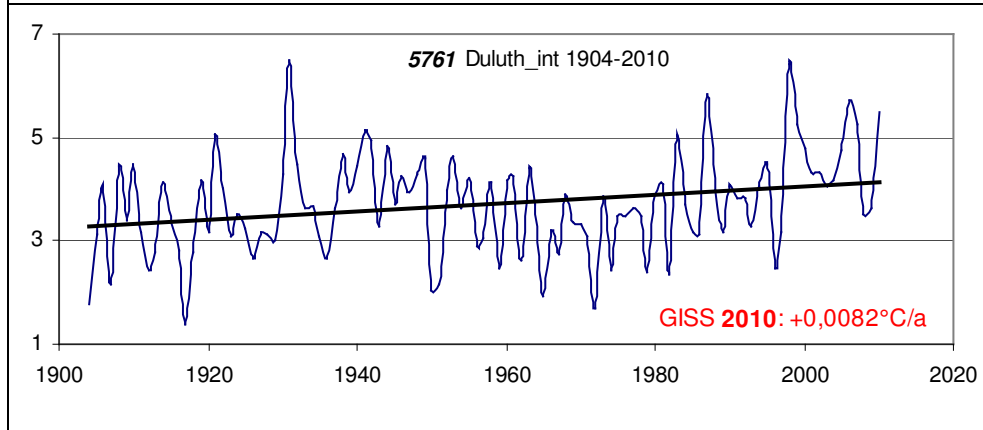
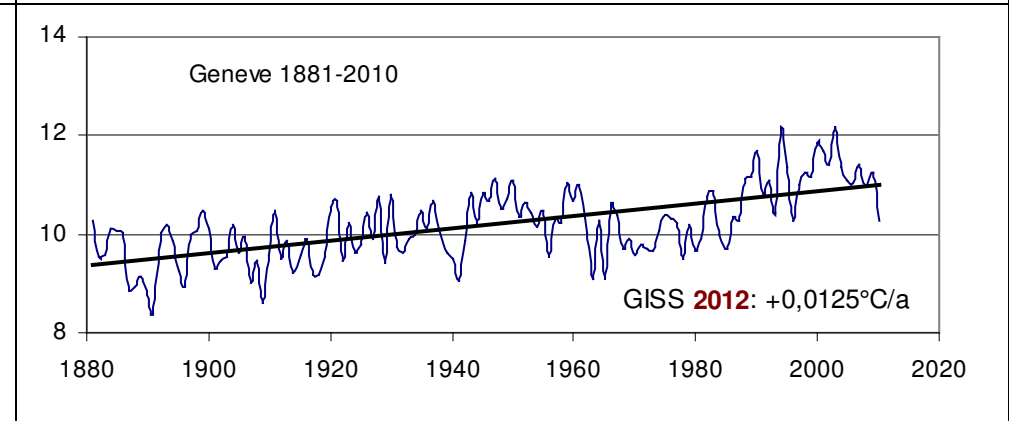
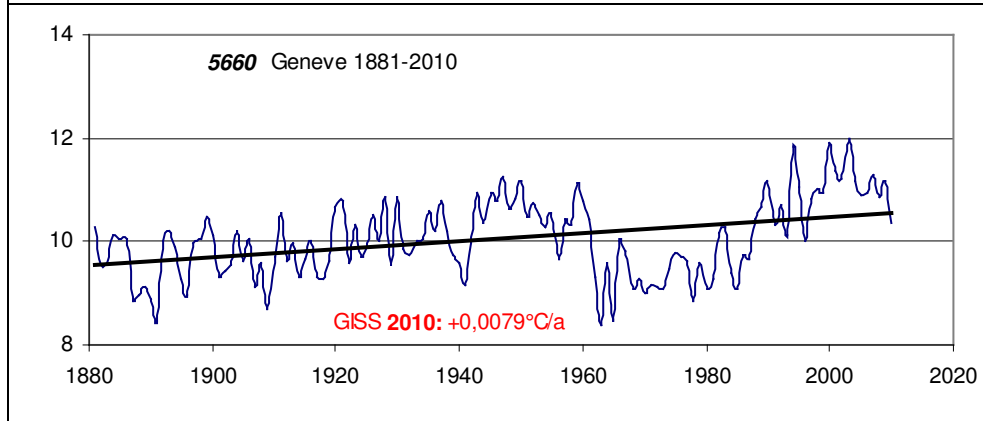
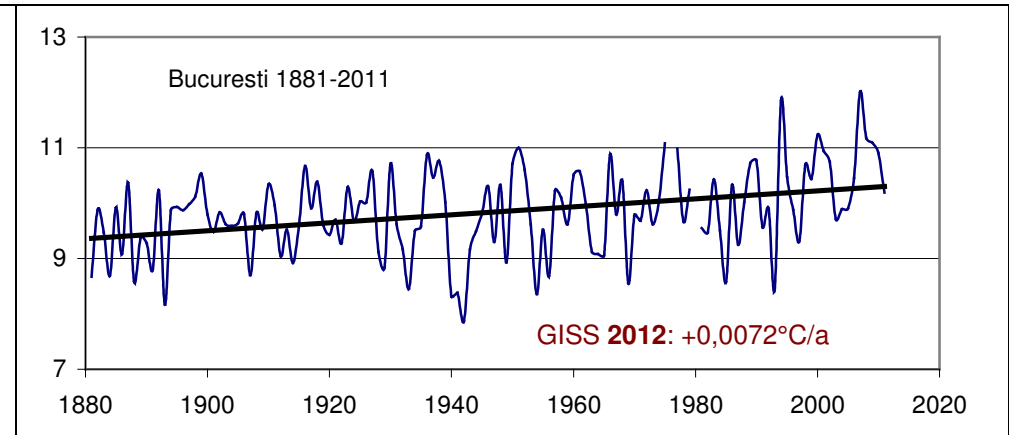
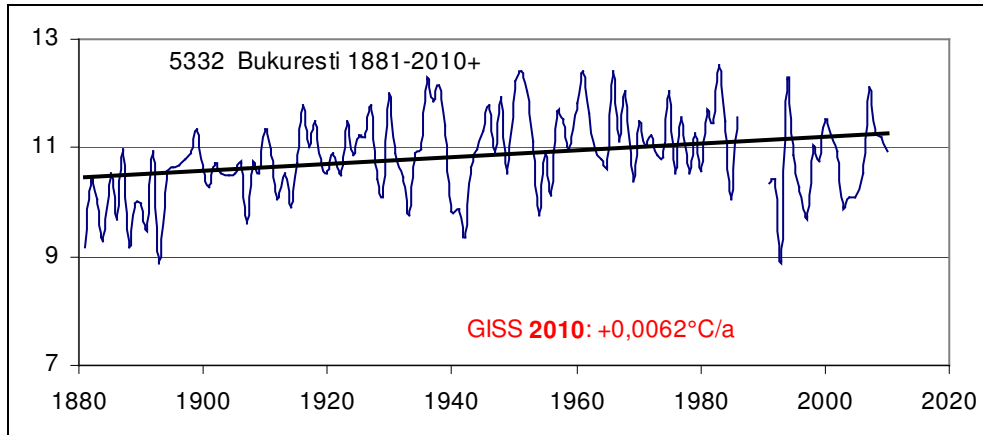


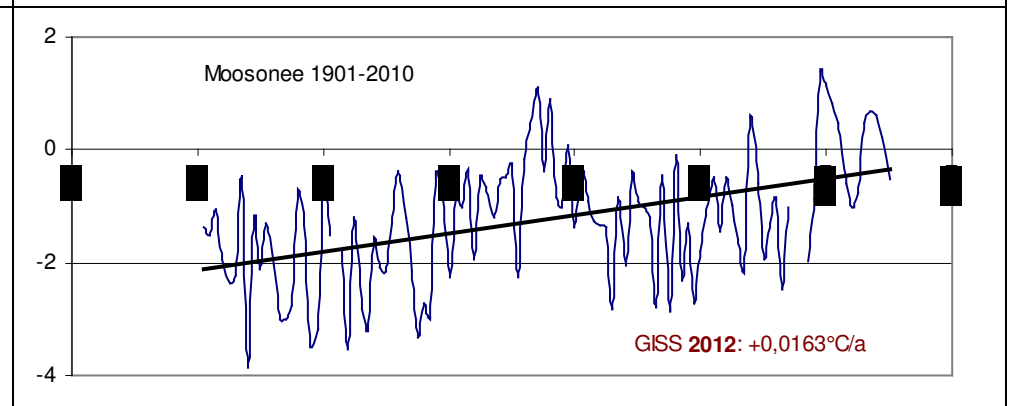
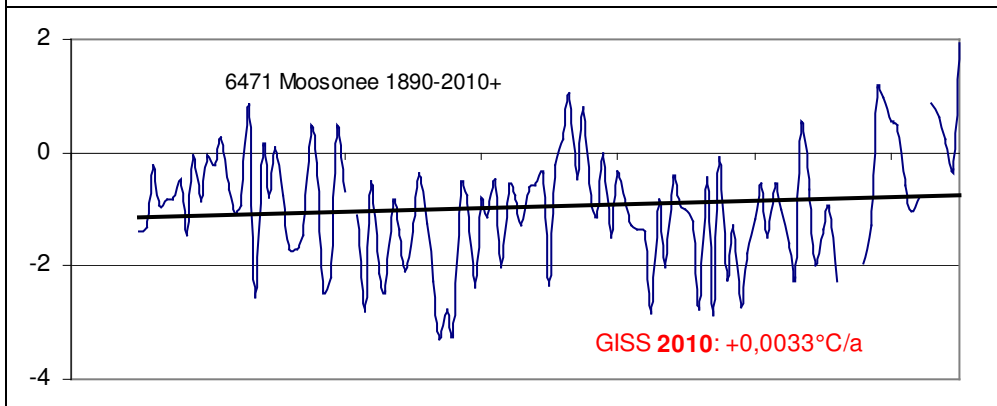
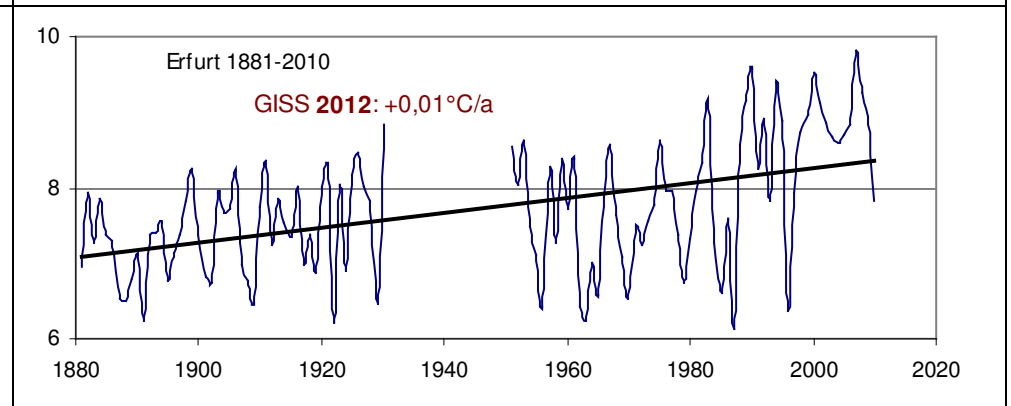
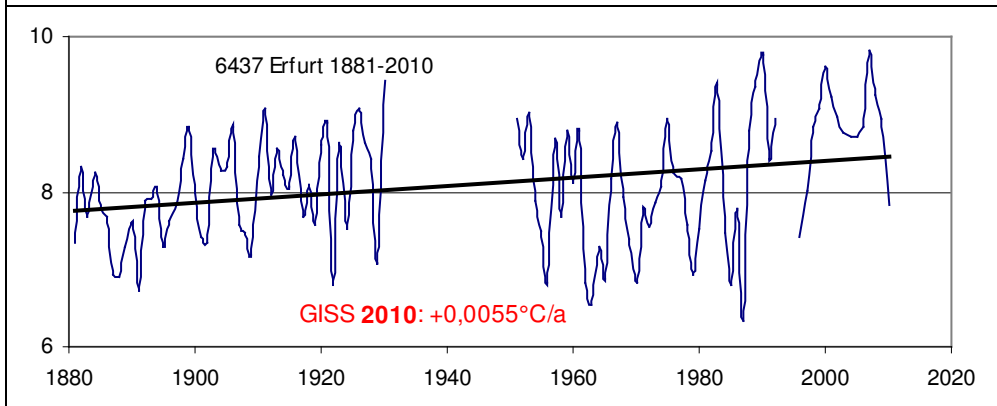
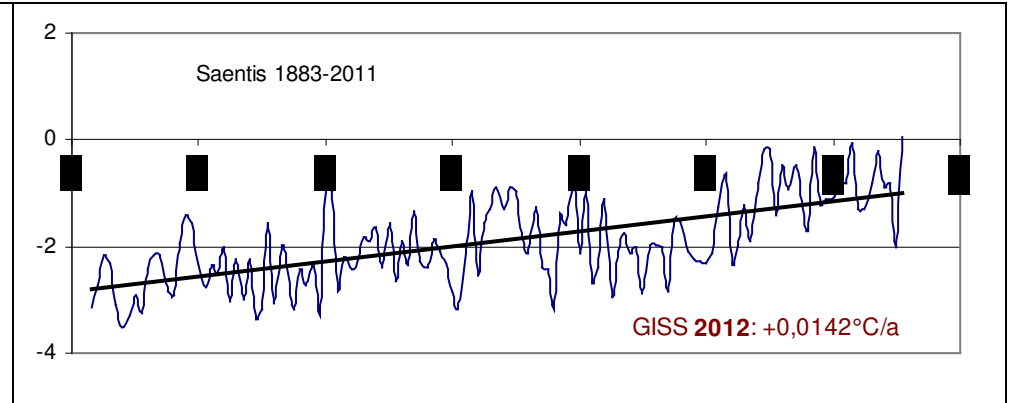
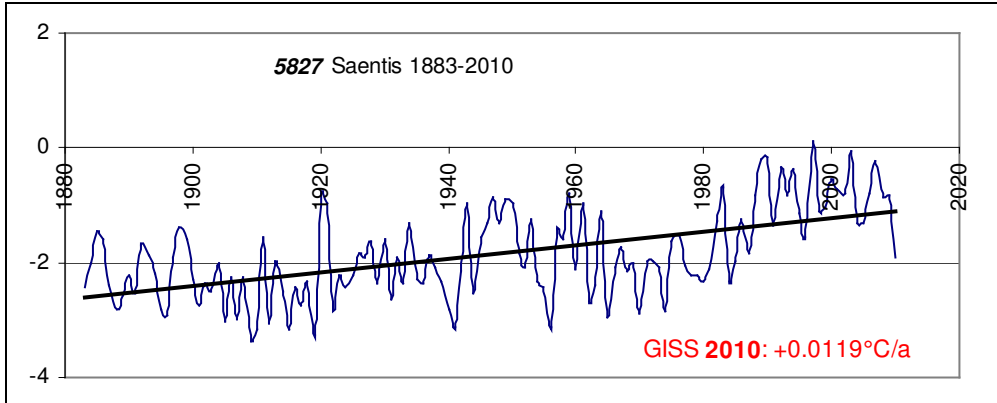


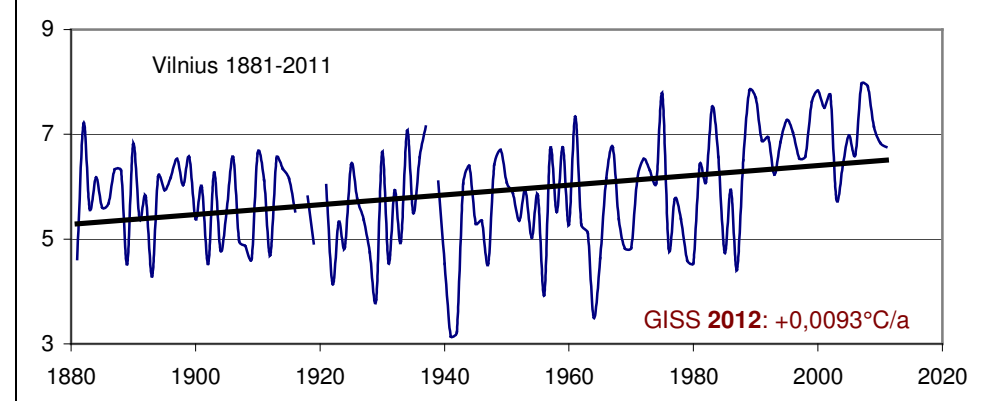
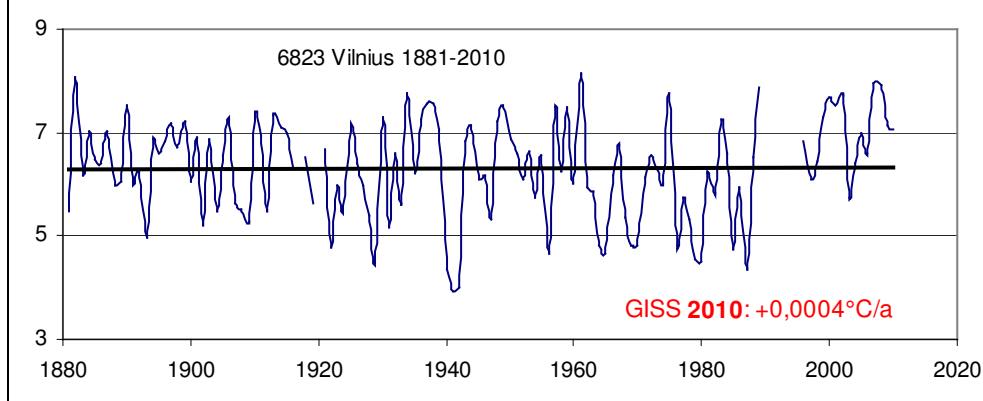
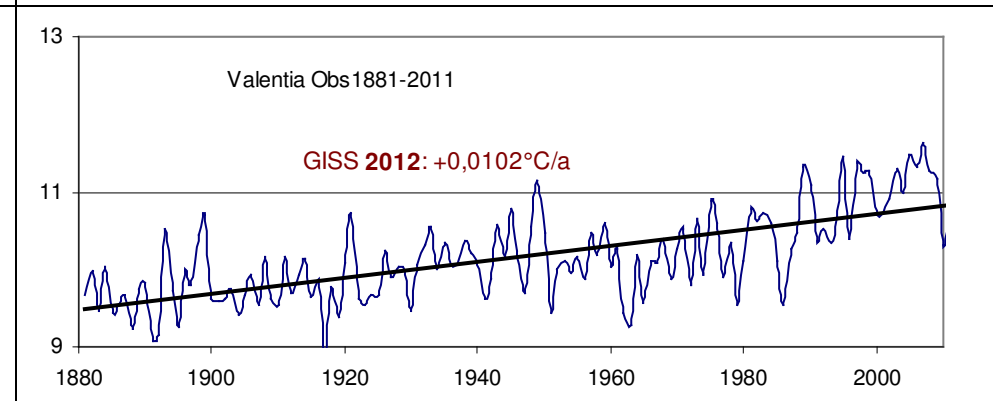
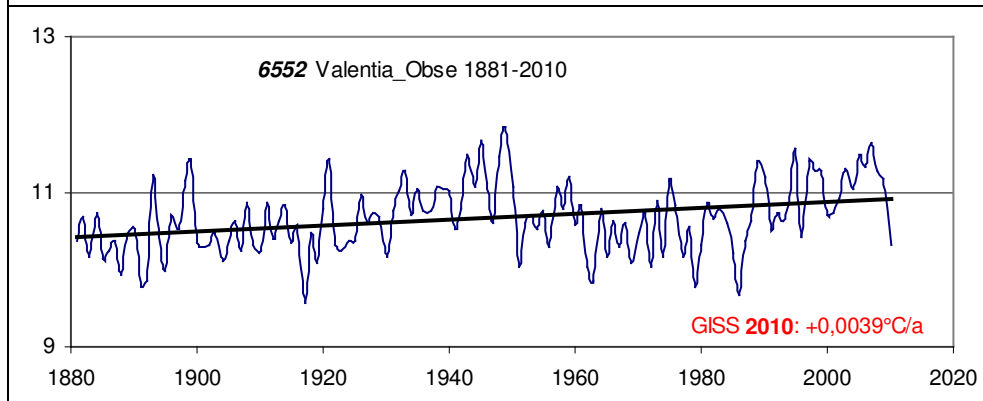
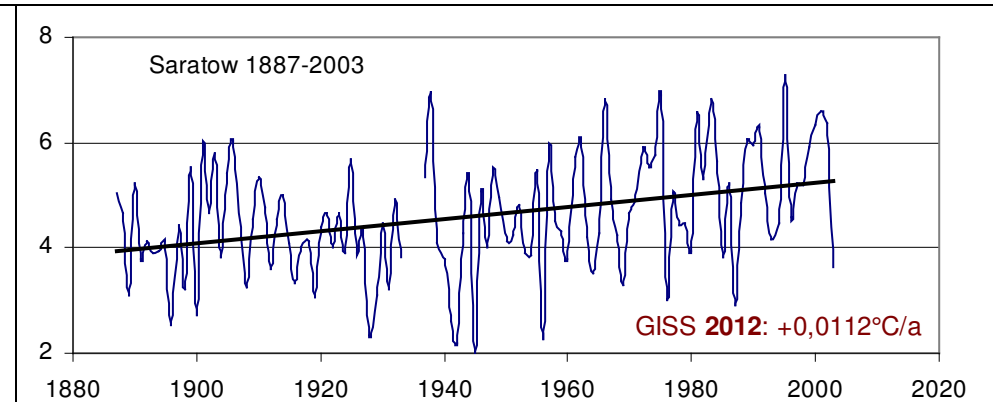
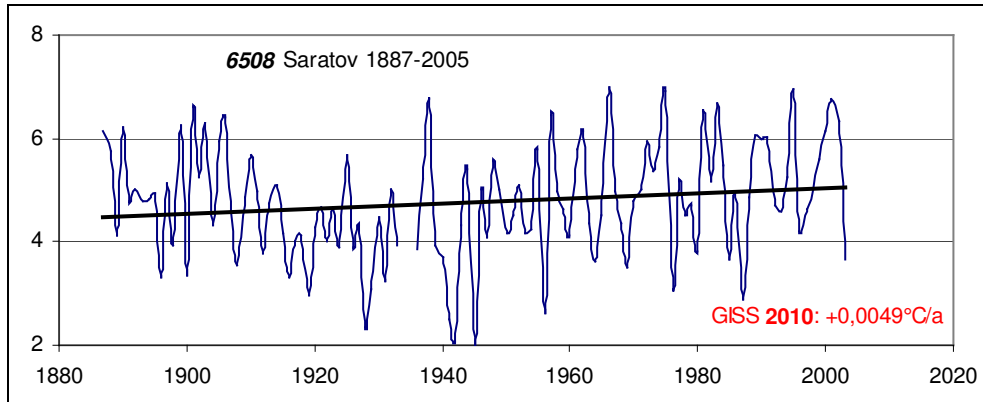


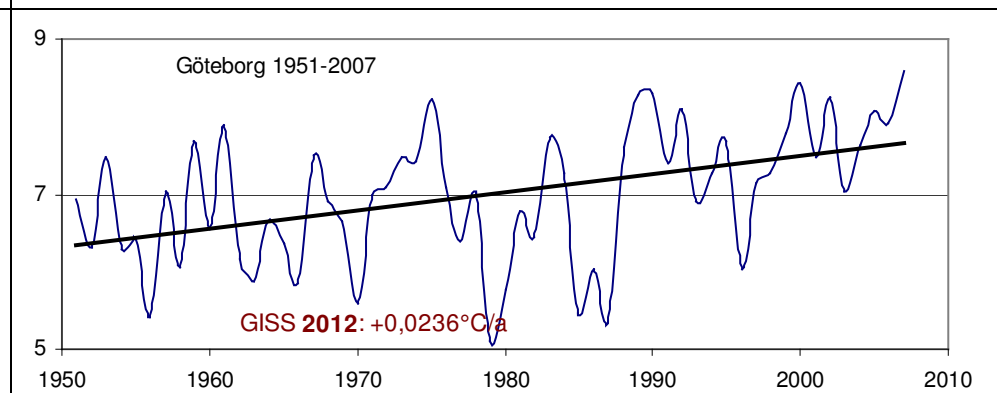
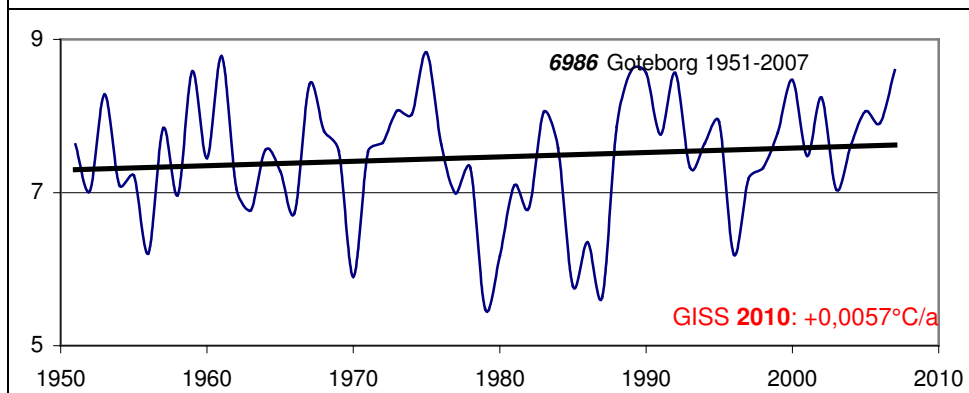
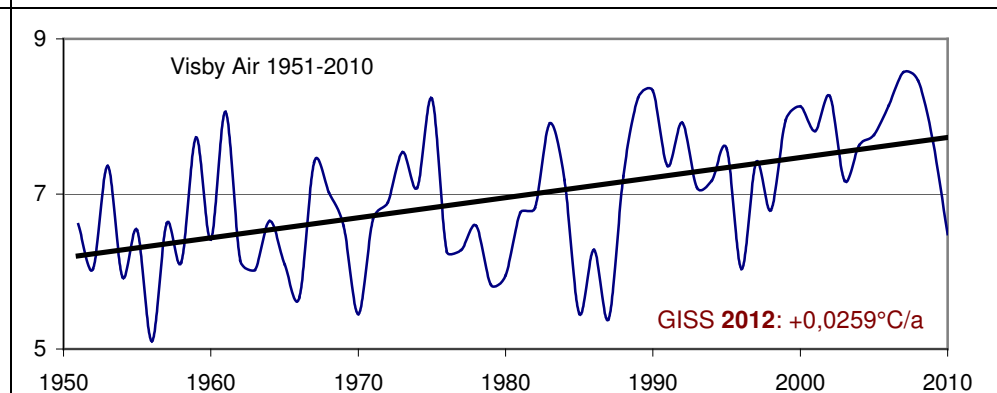
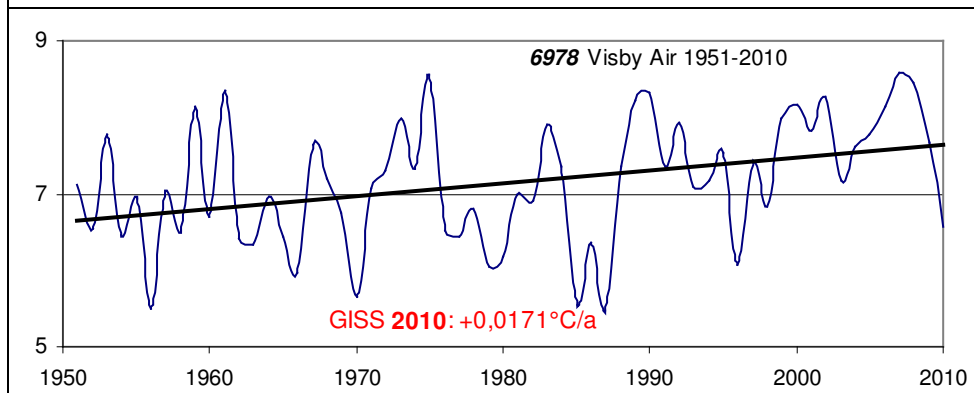
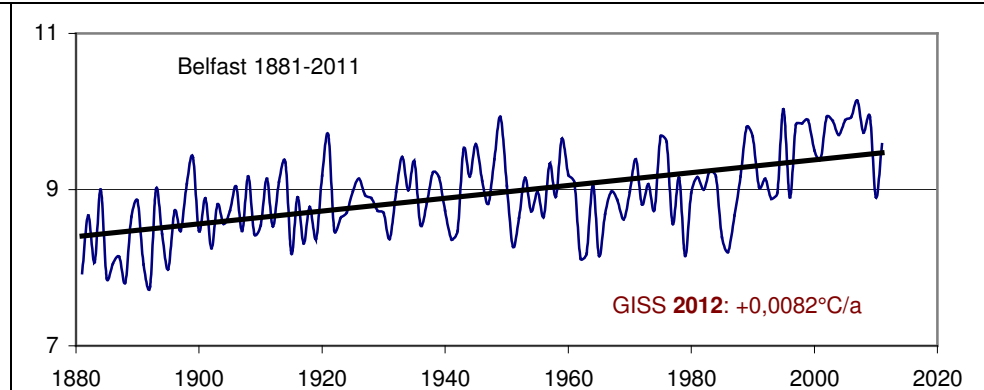
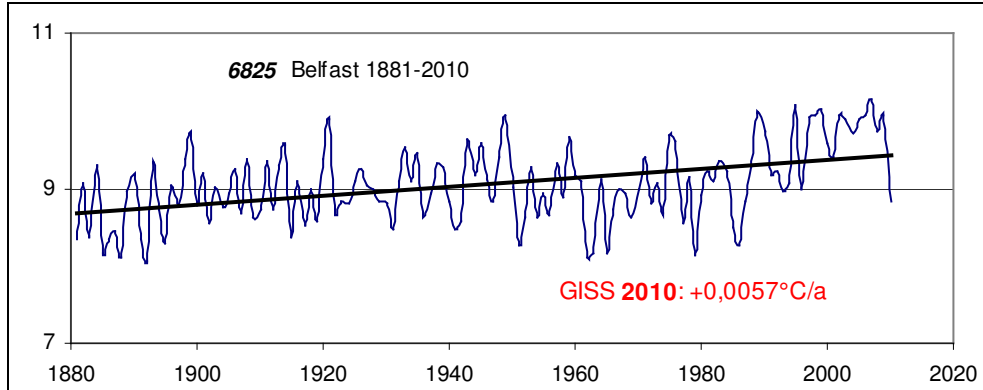


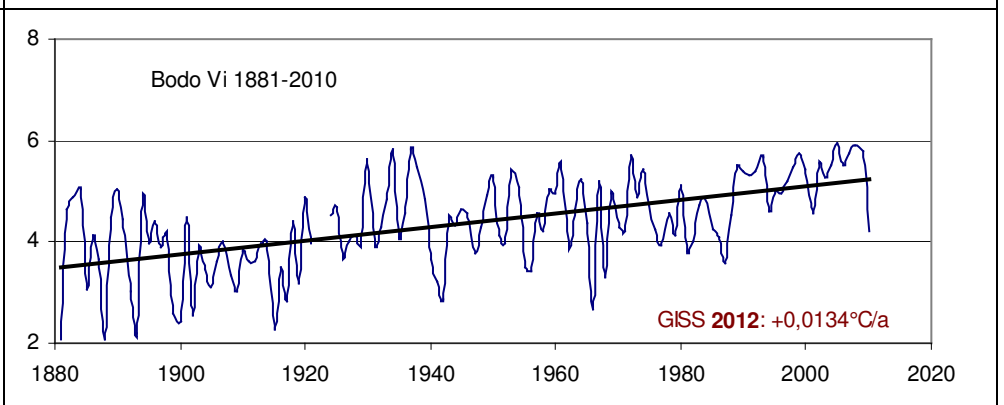
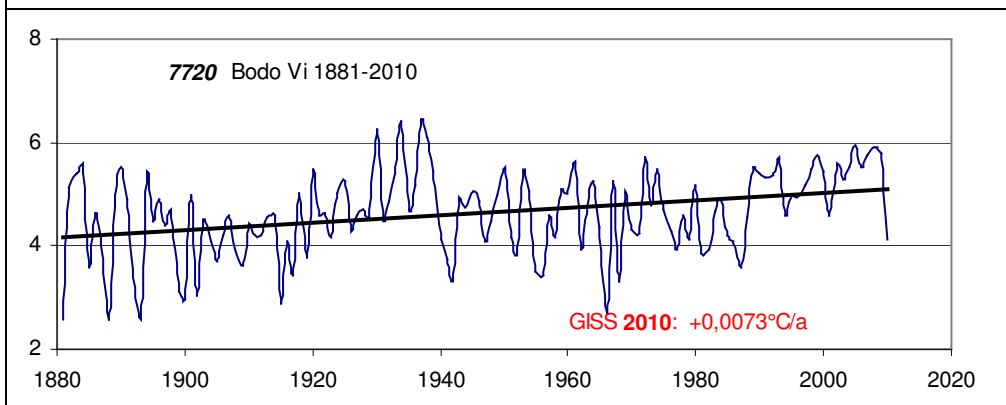
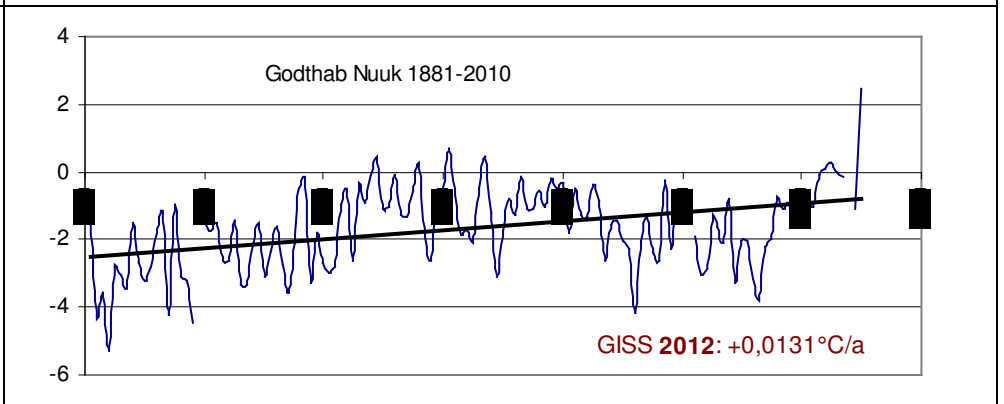
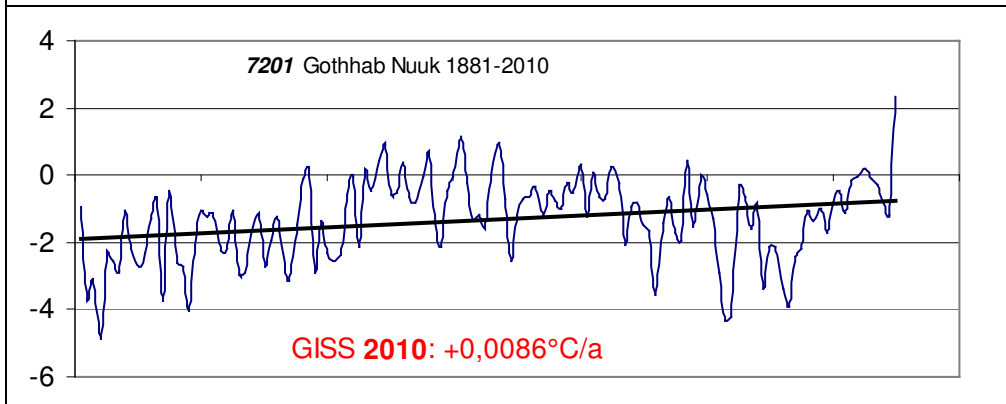
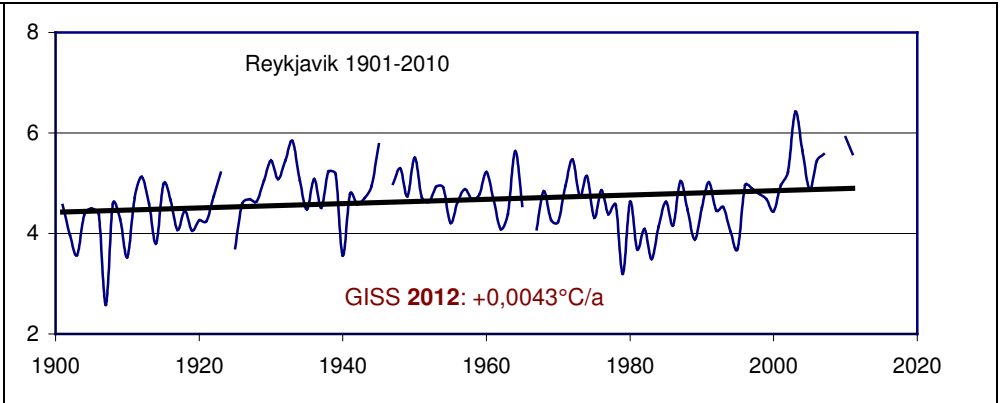
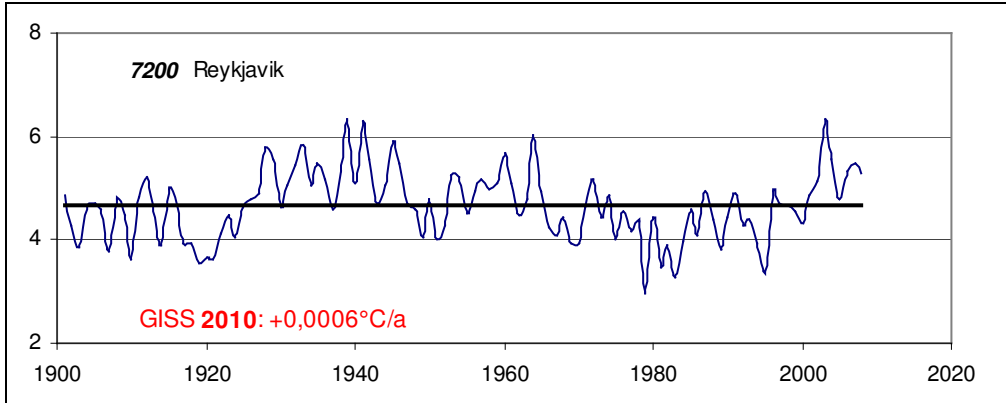




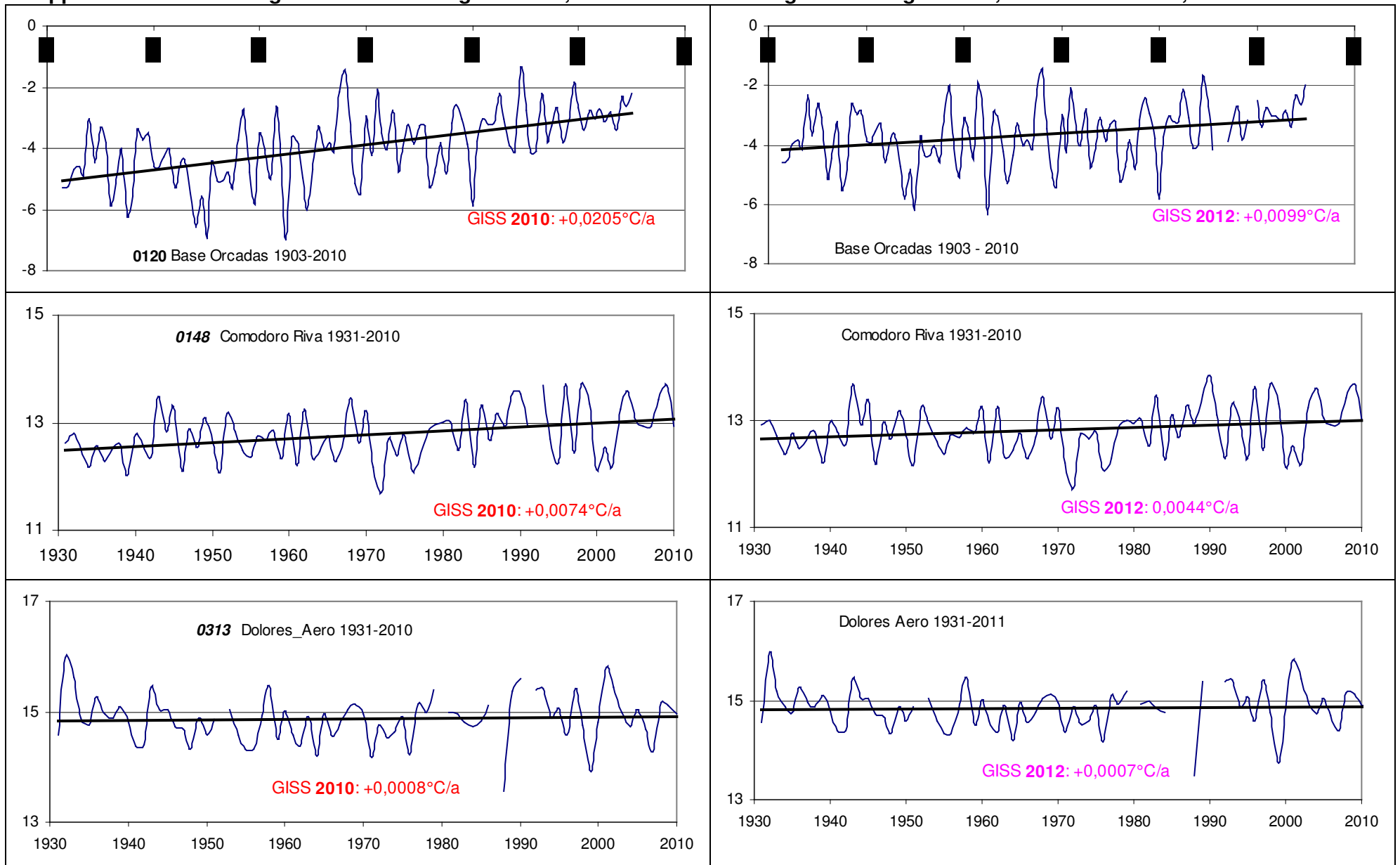


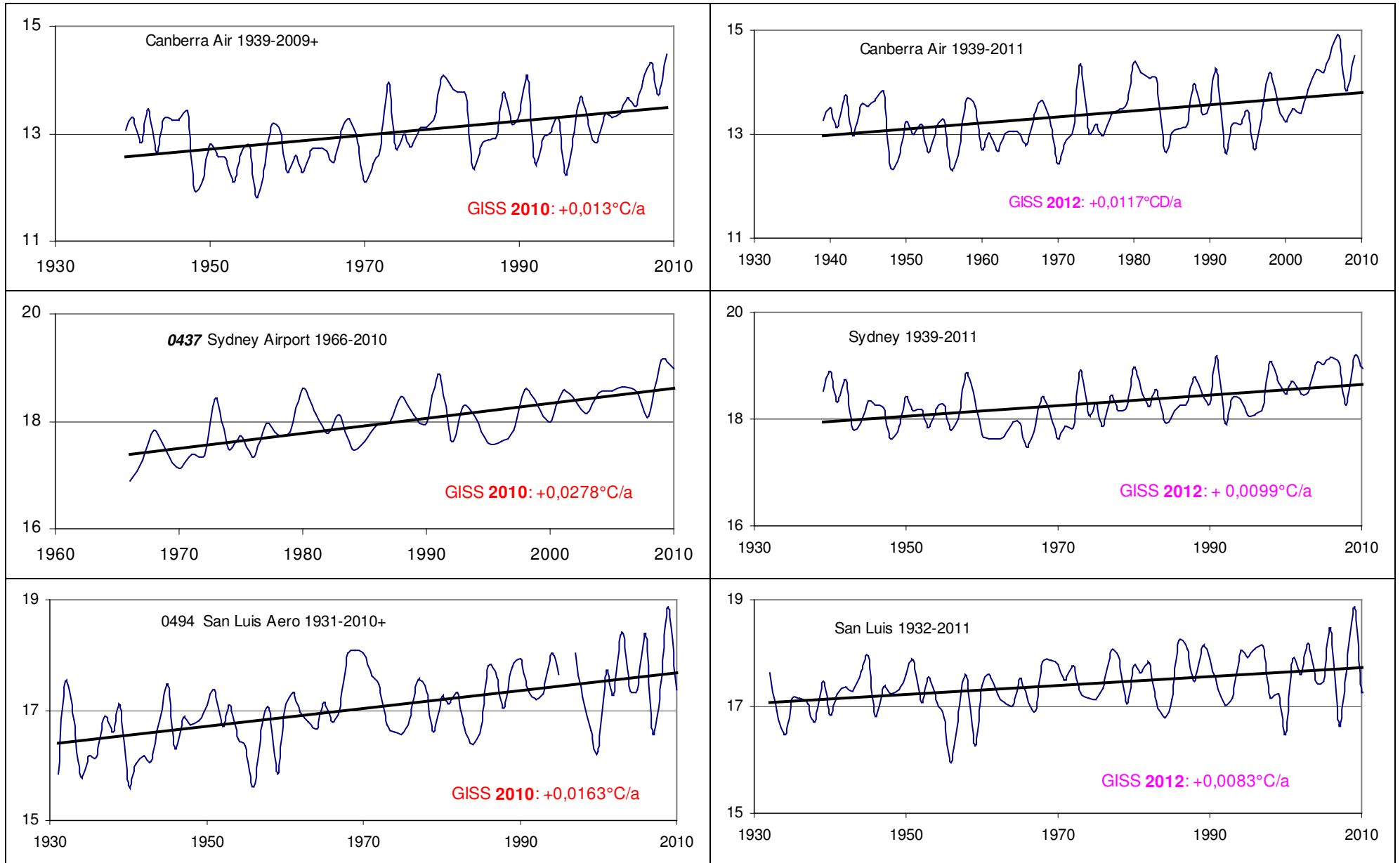


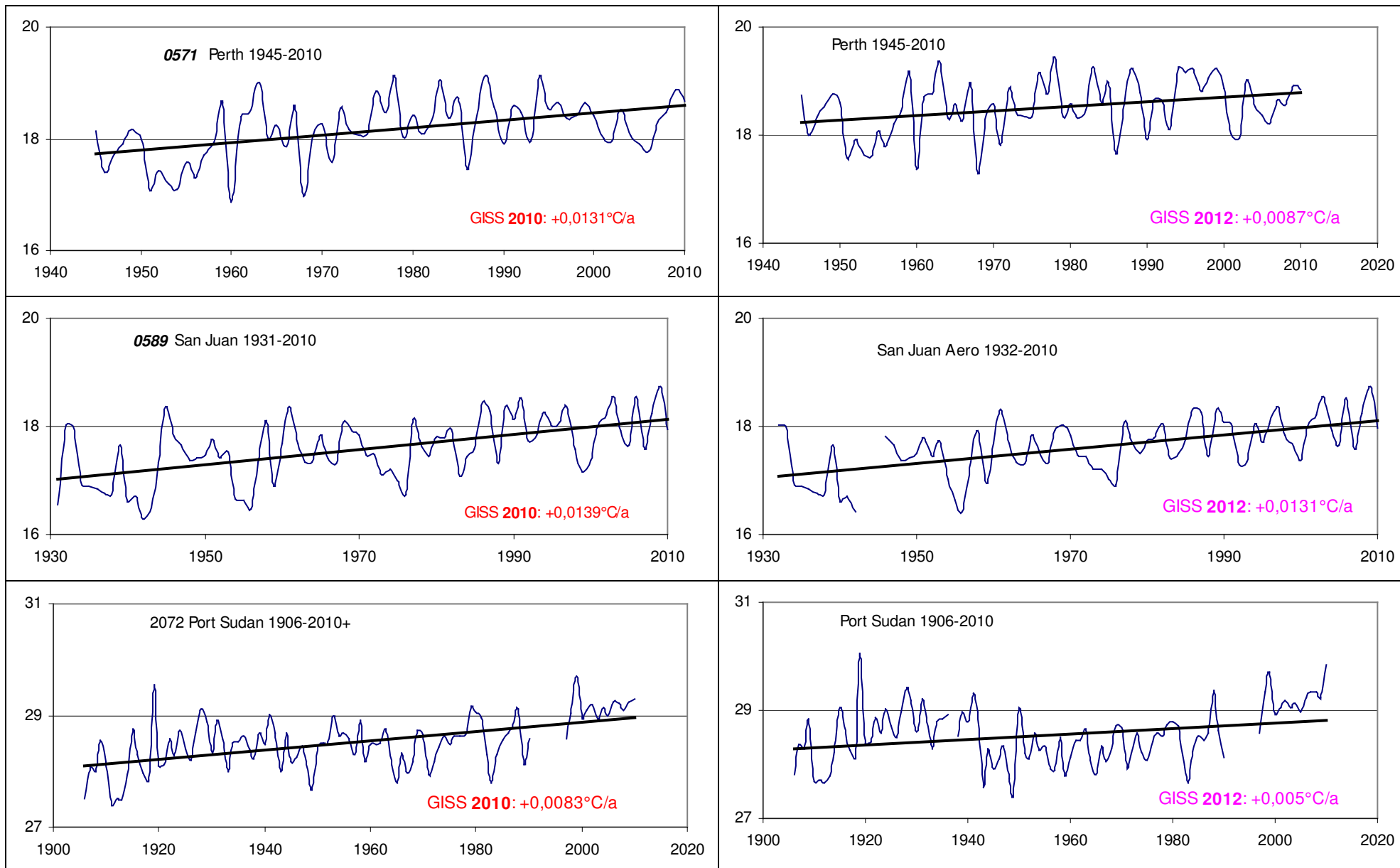


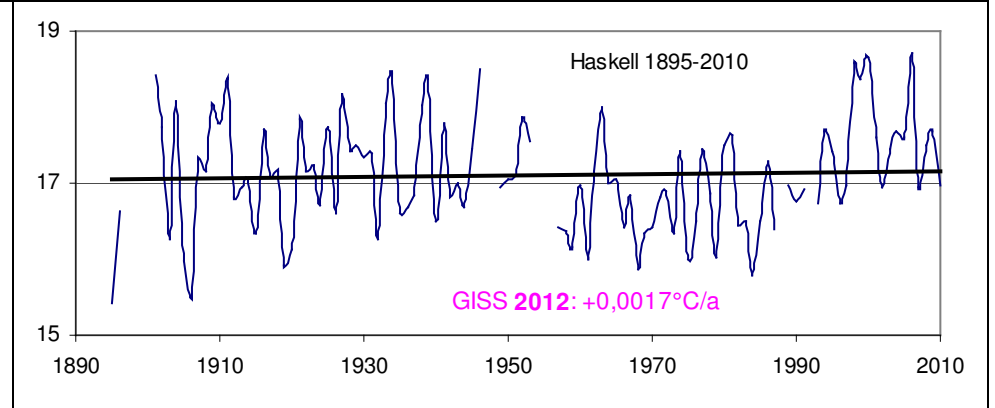
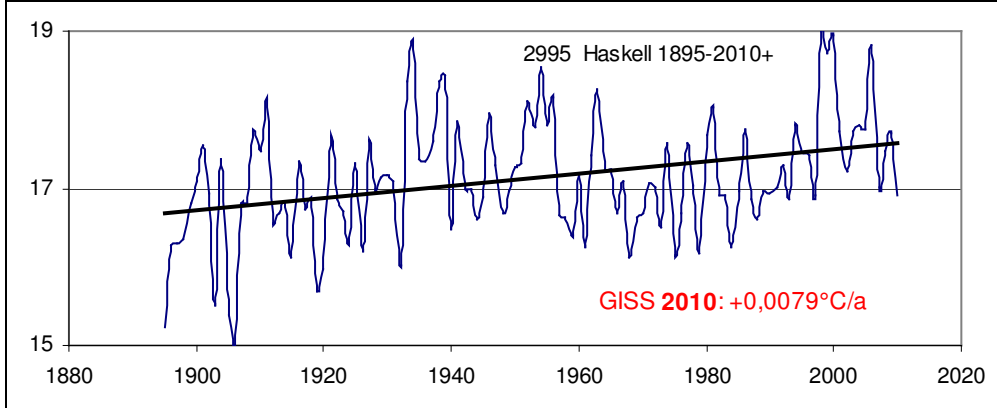
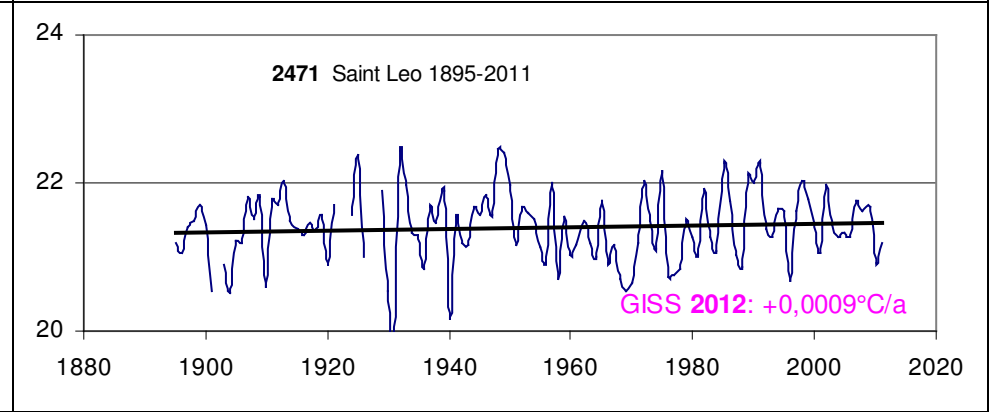
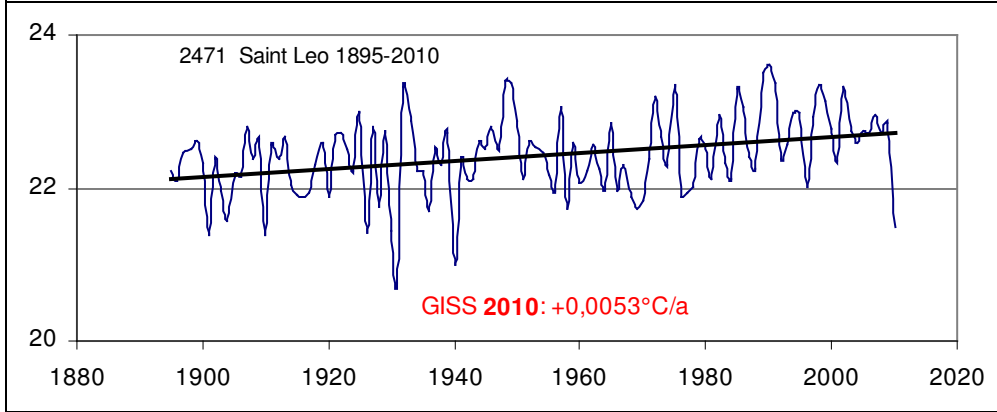
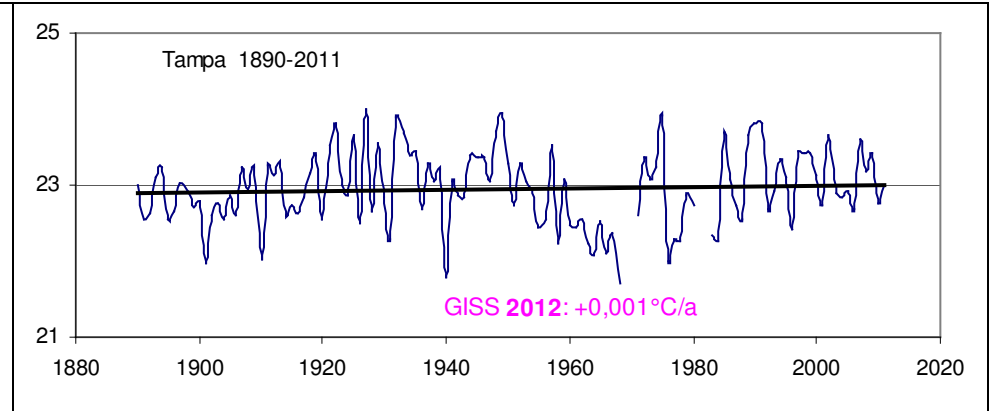
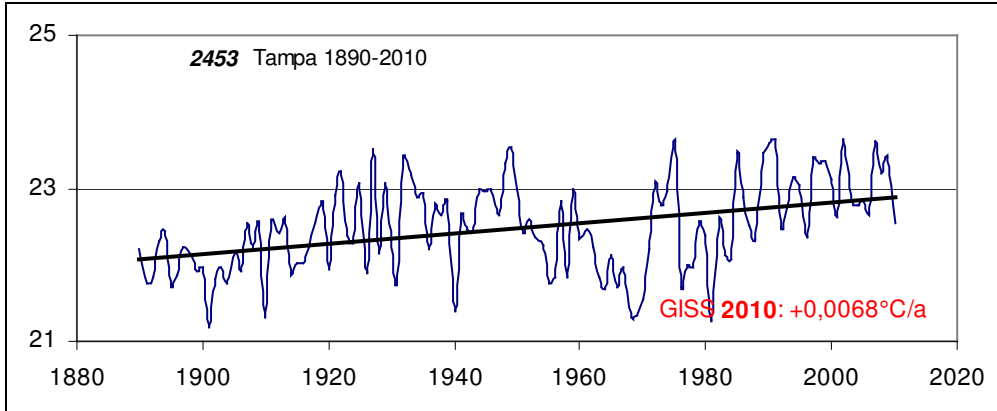


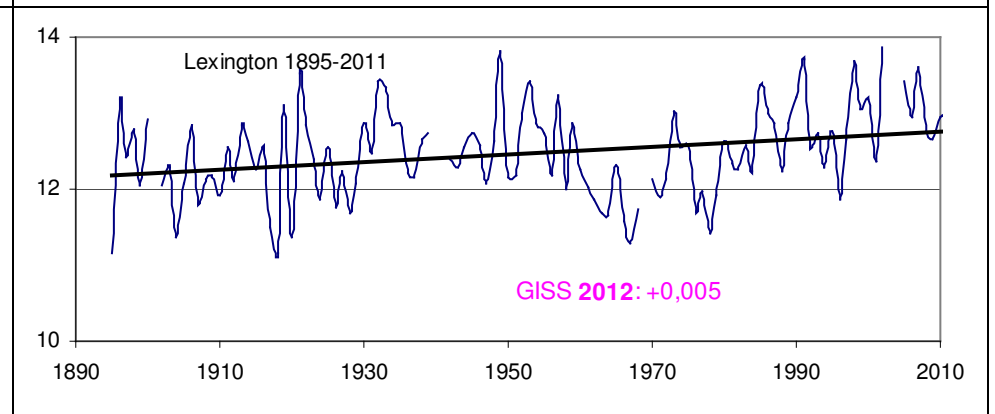
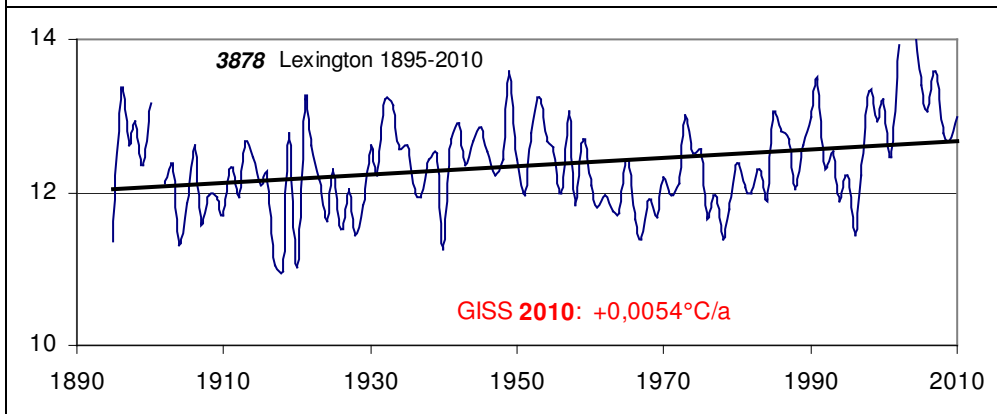
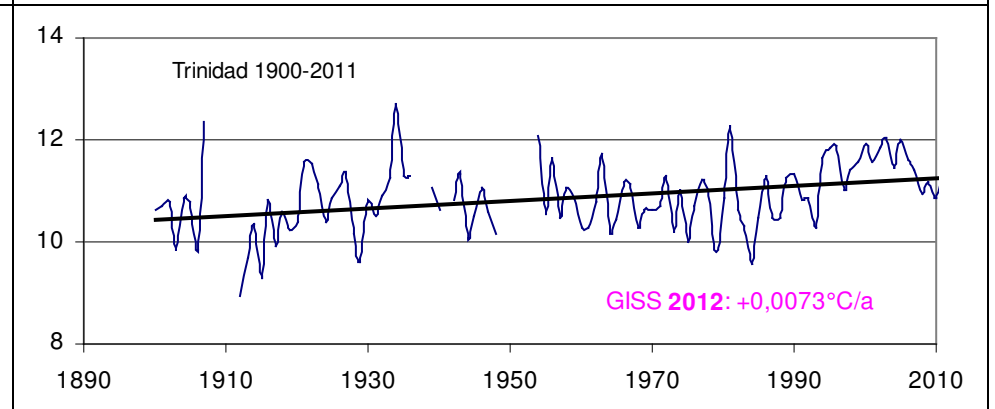
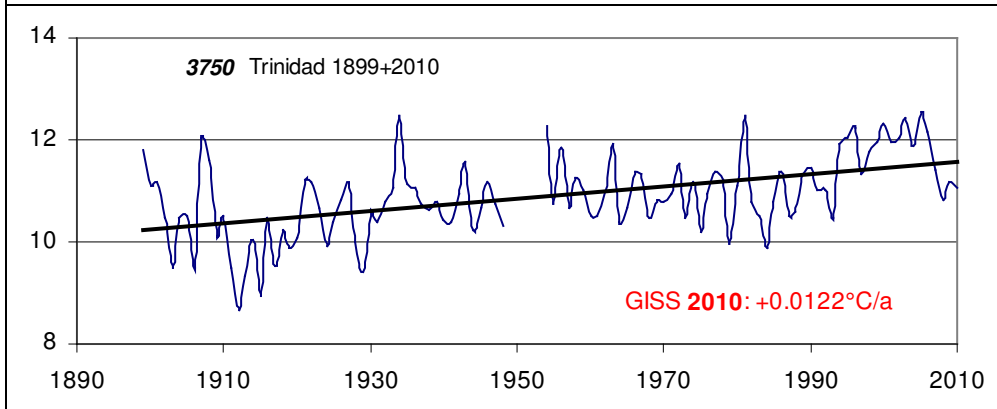
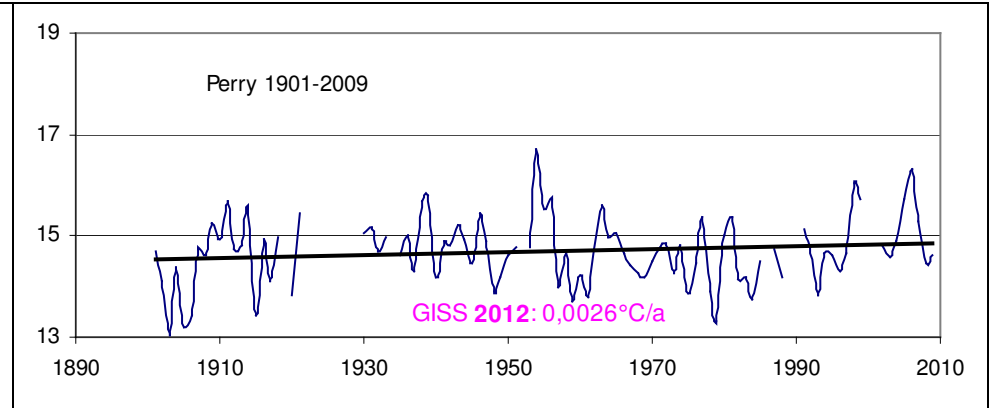
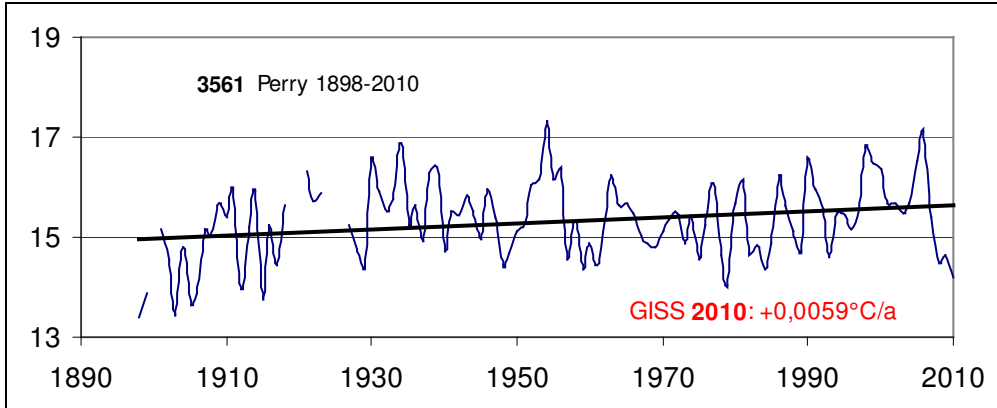
Gruppe 5: 2010 Erwärmung > 2012 Erwärmung reduziert, meist durch Erhöhung von Anfangswerten; 29 Stationen – 24,2%

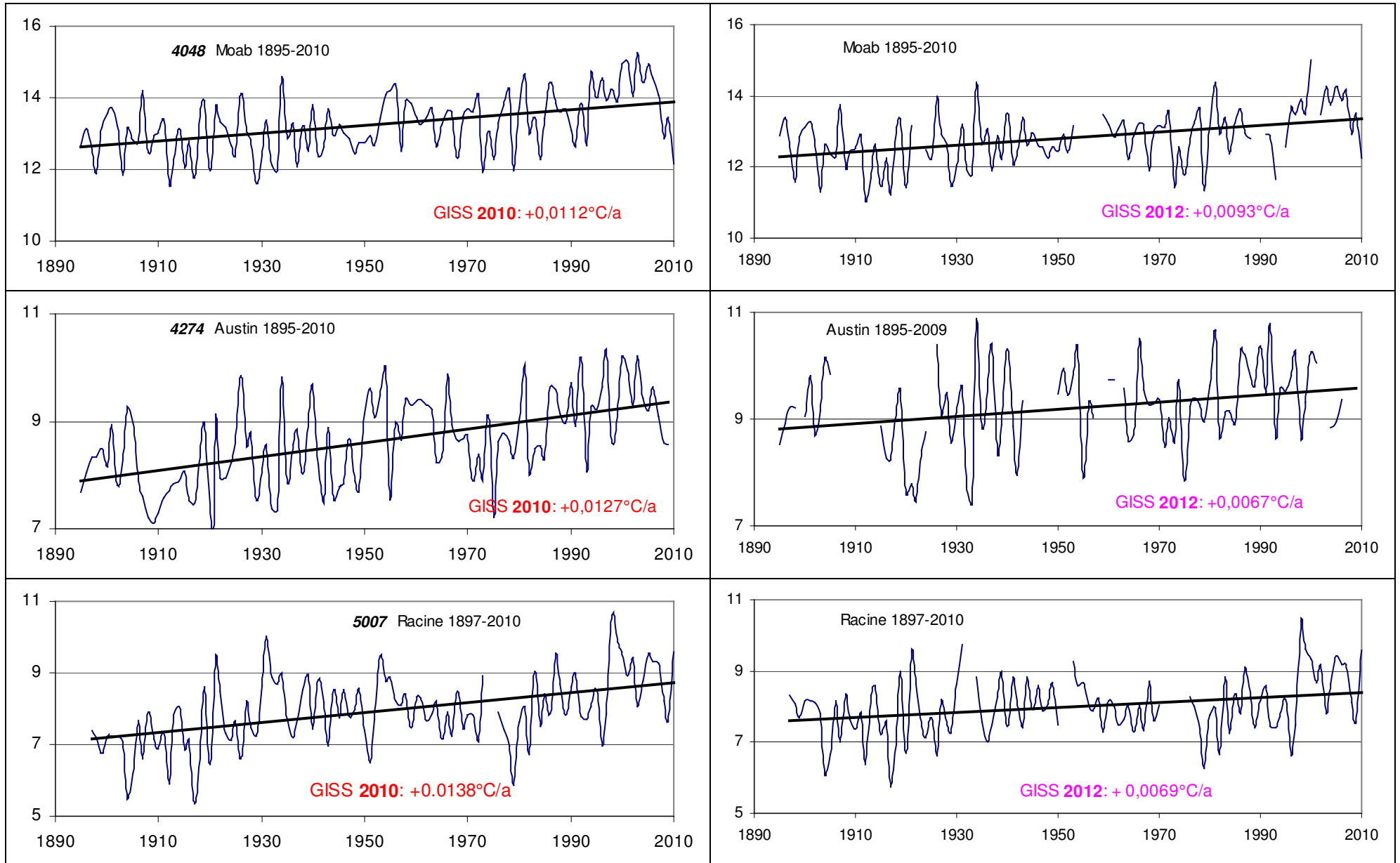


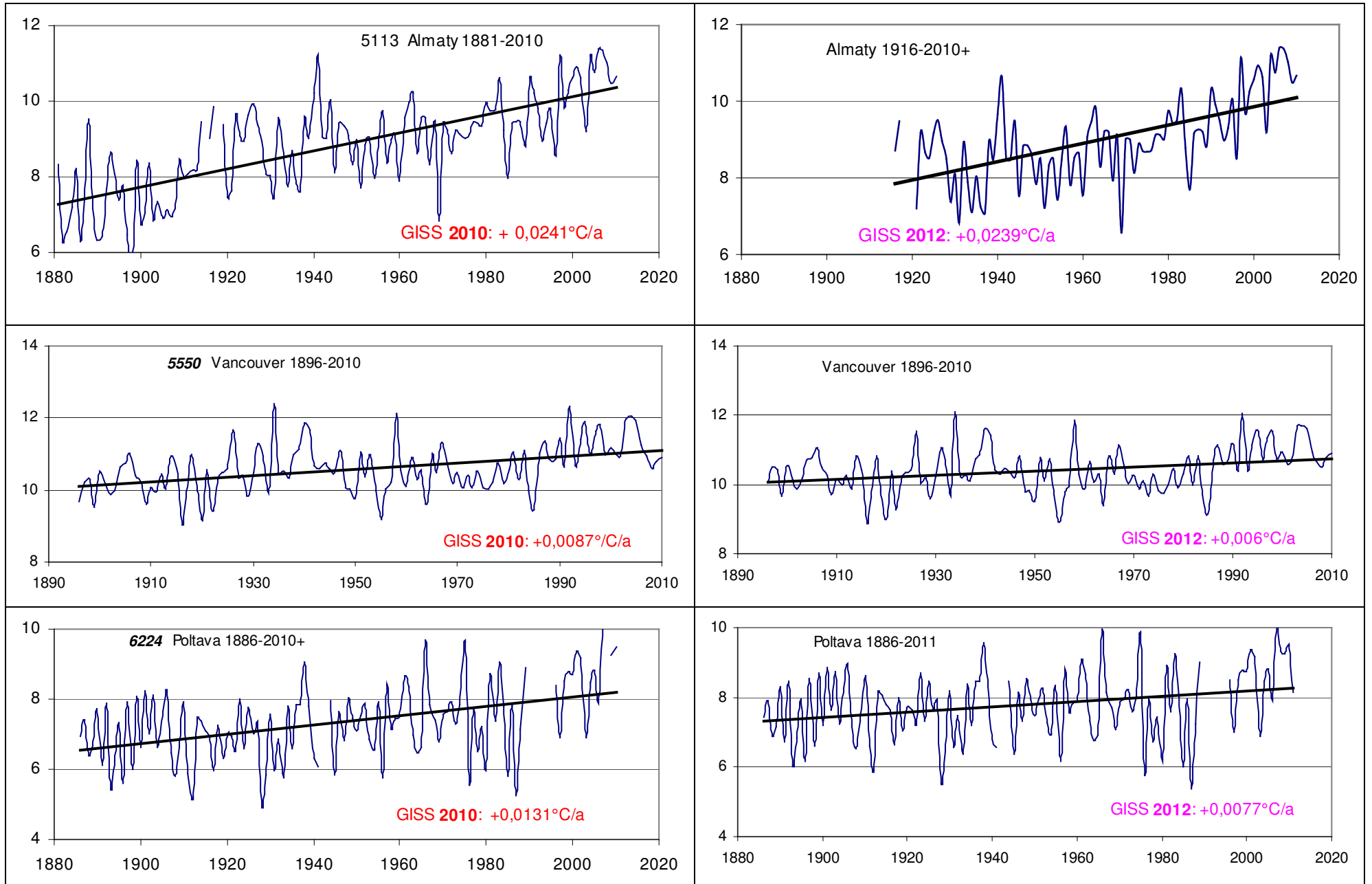


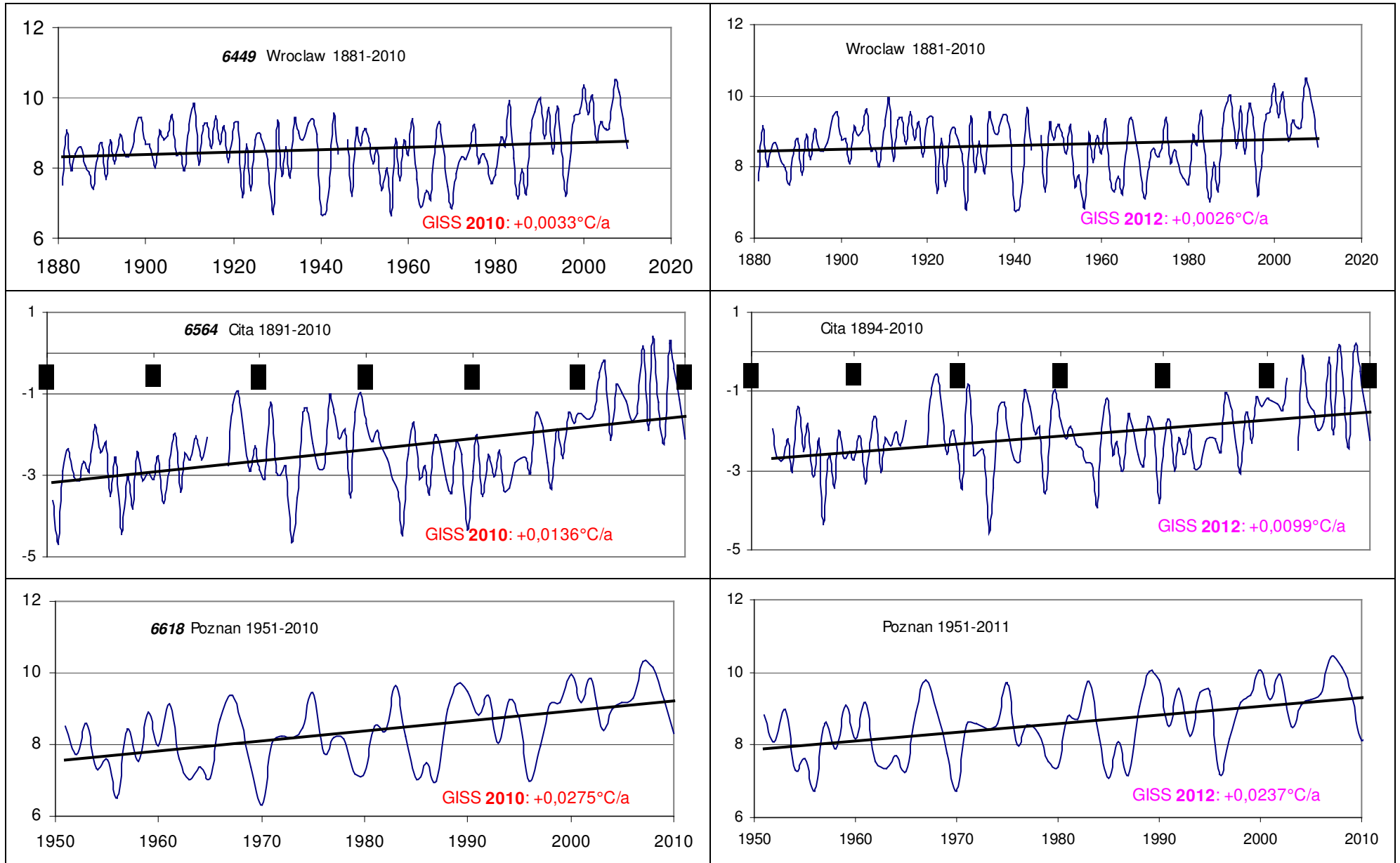


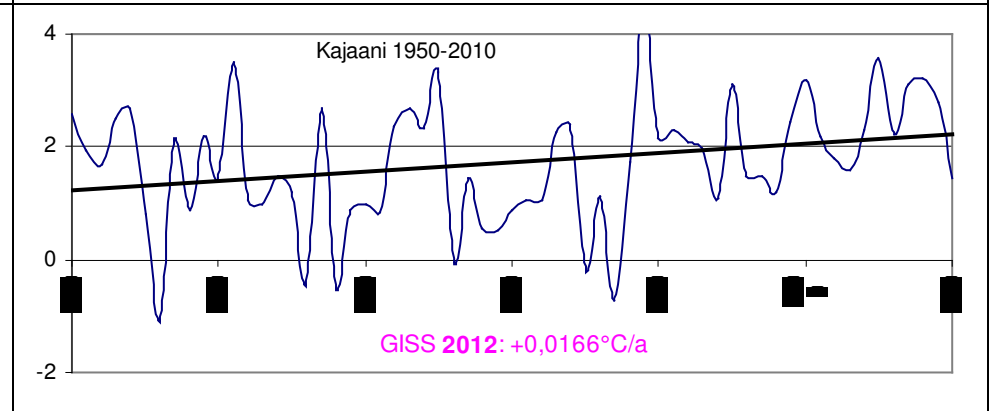
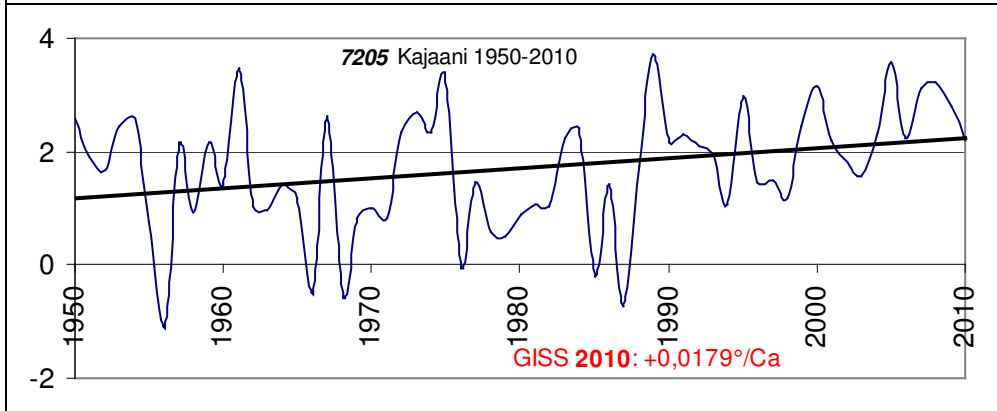
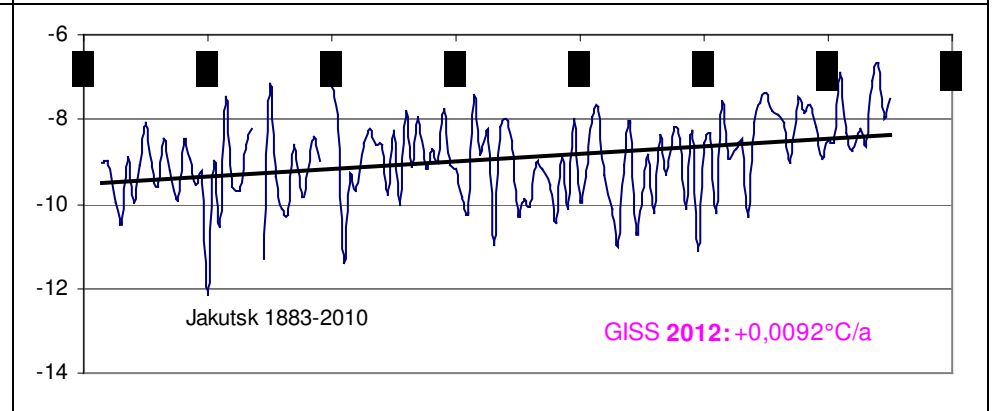
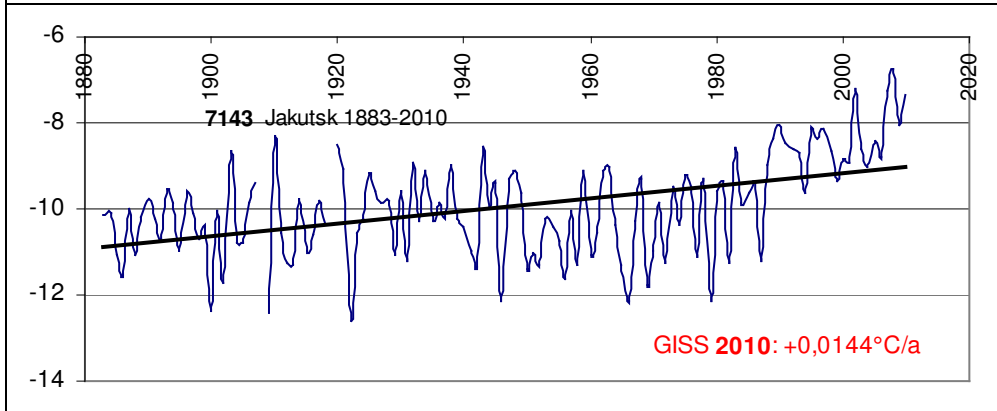
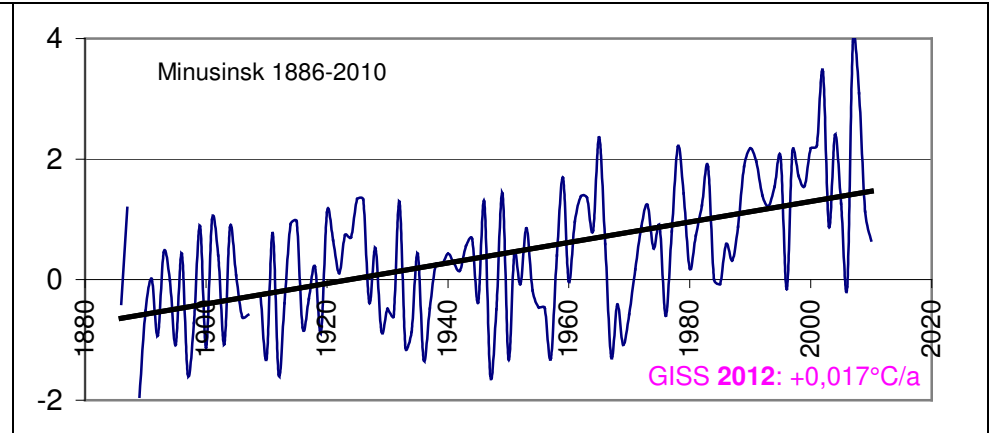
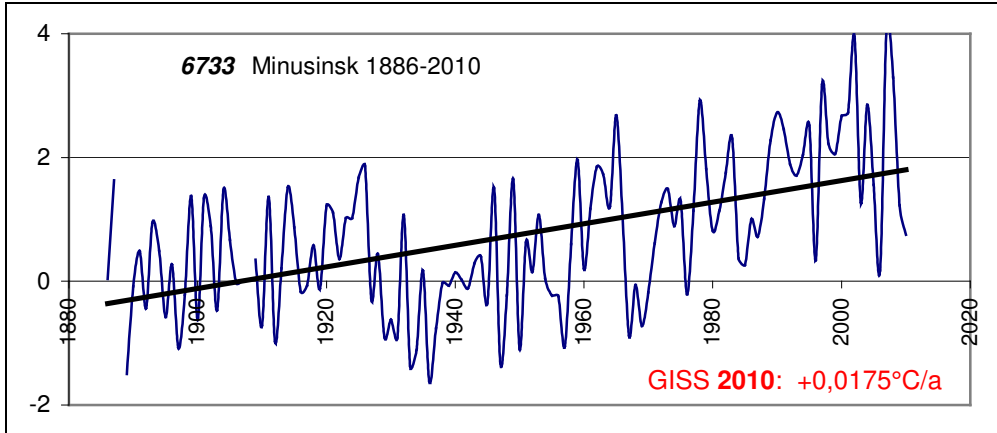


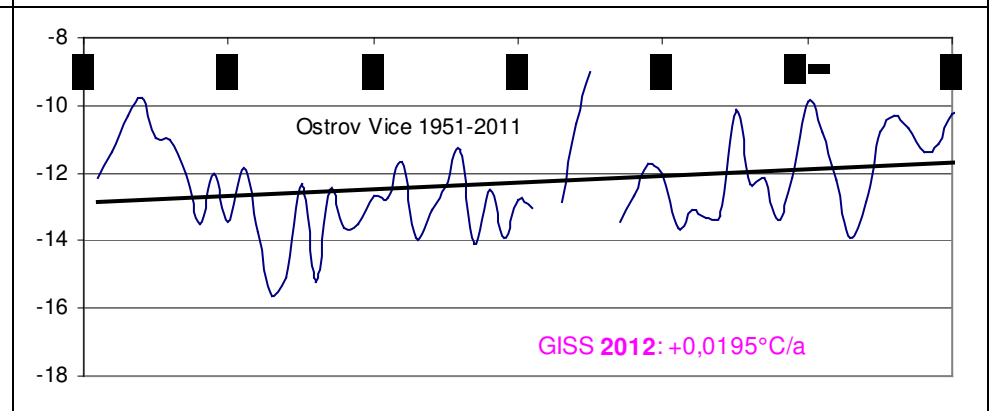
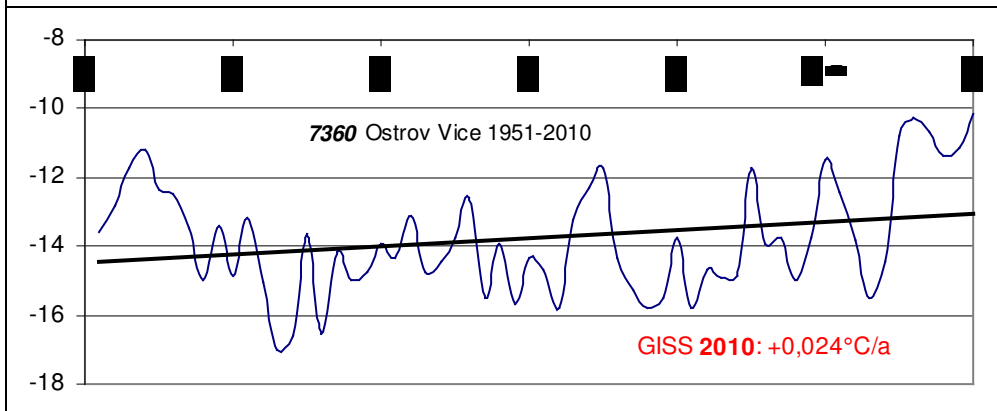
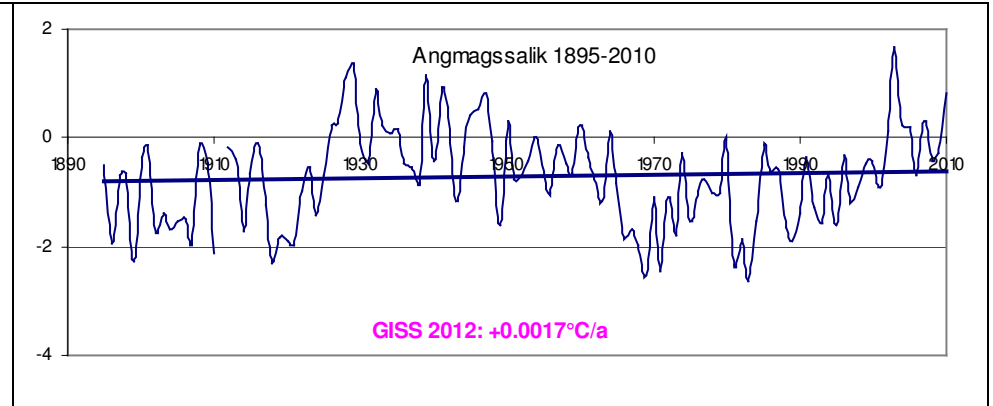
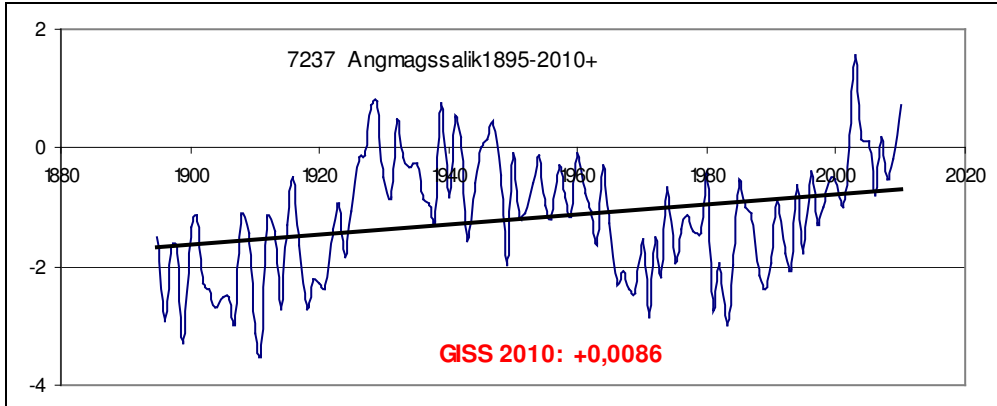




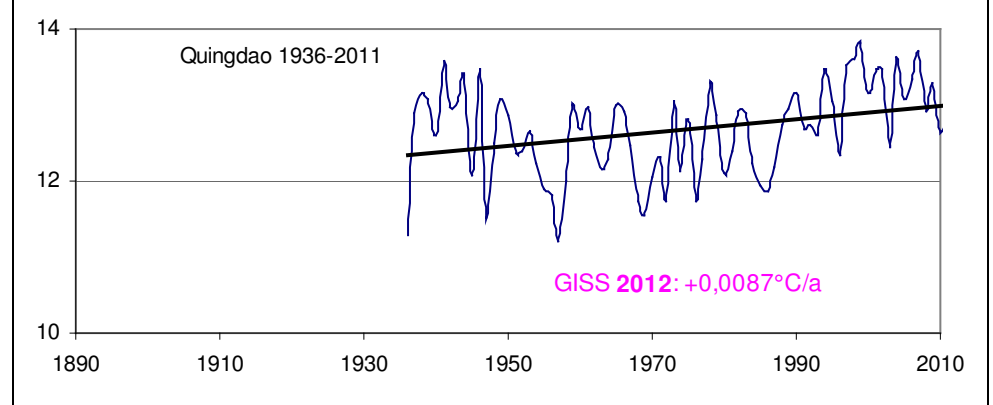
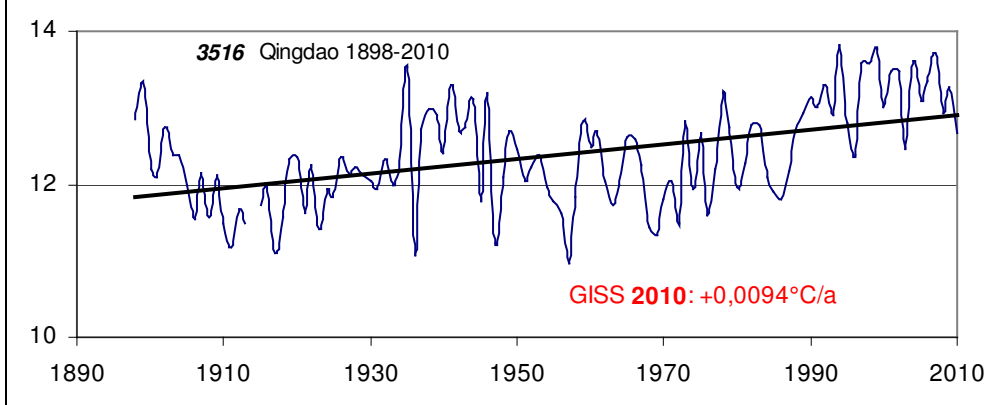


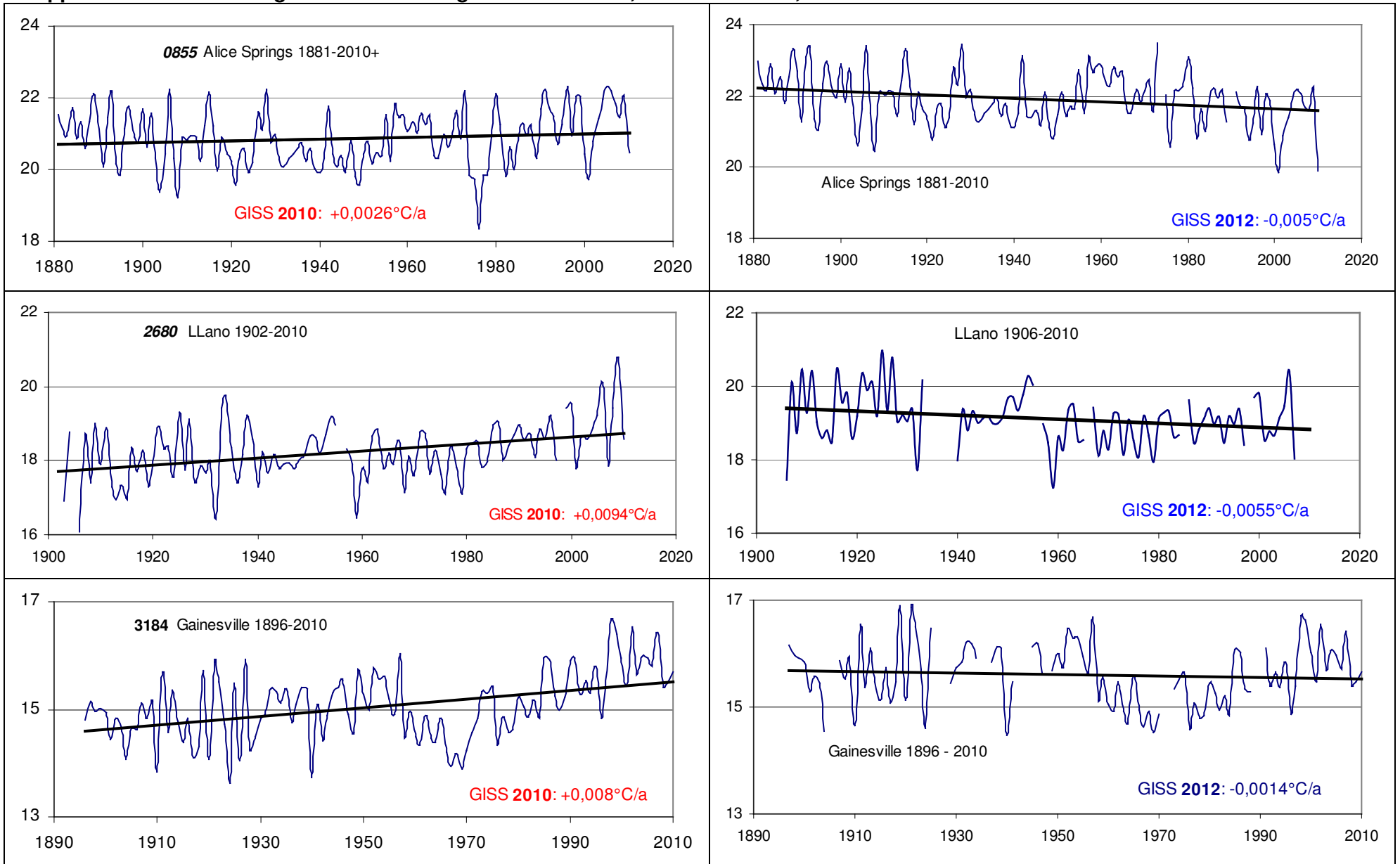


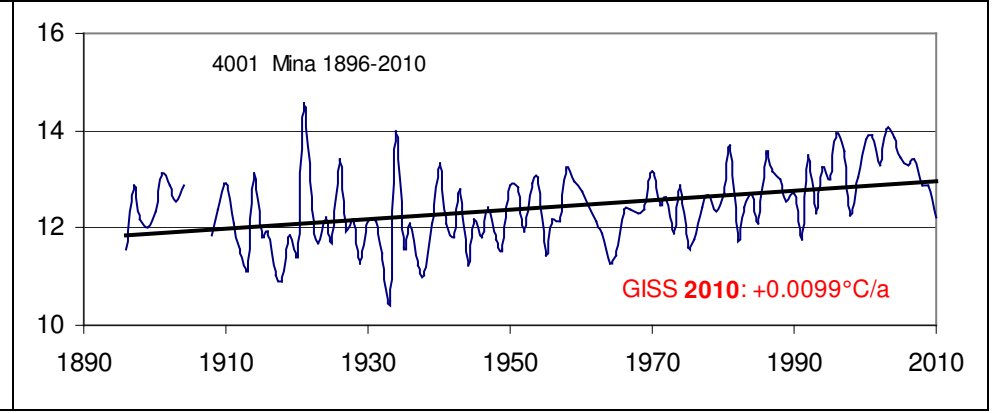
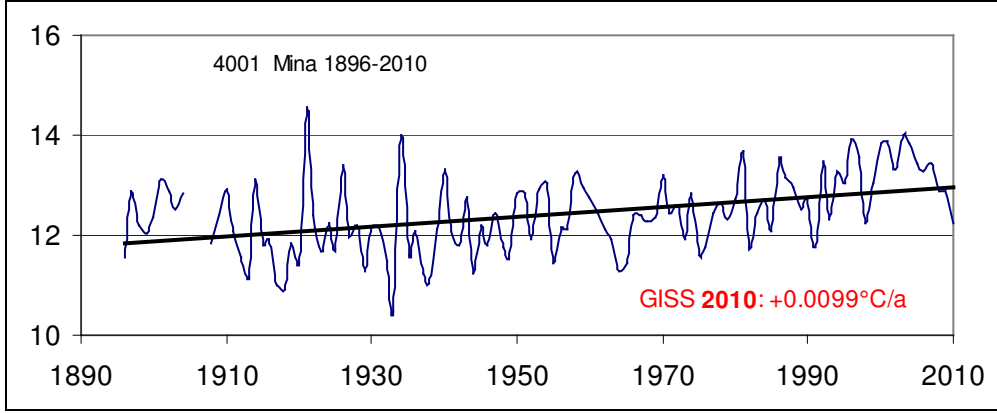
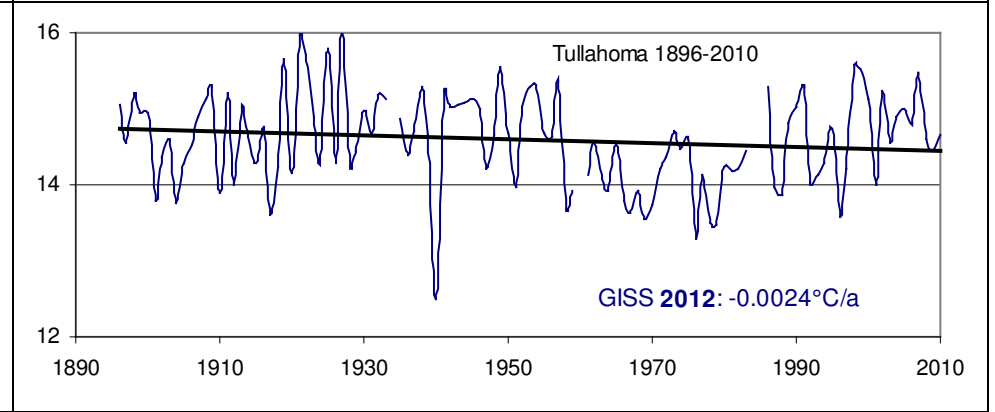
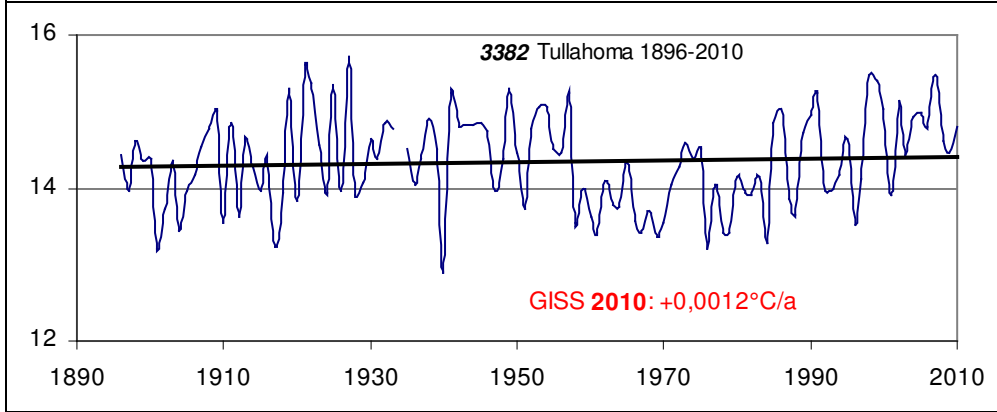
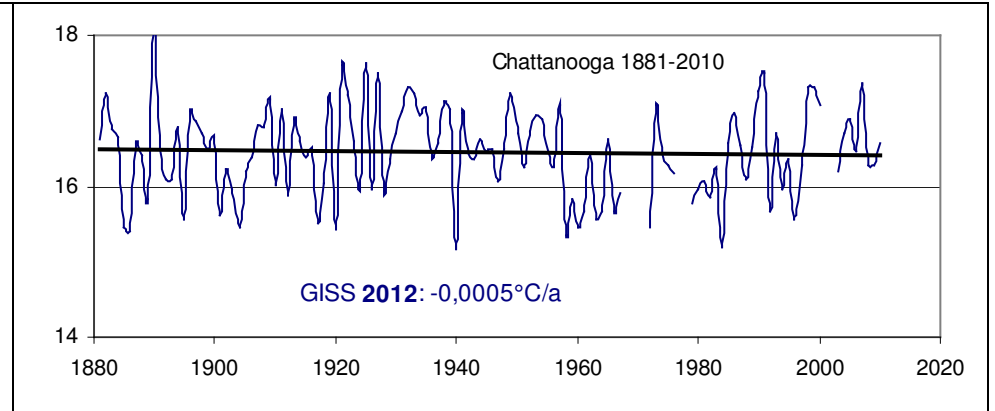
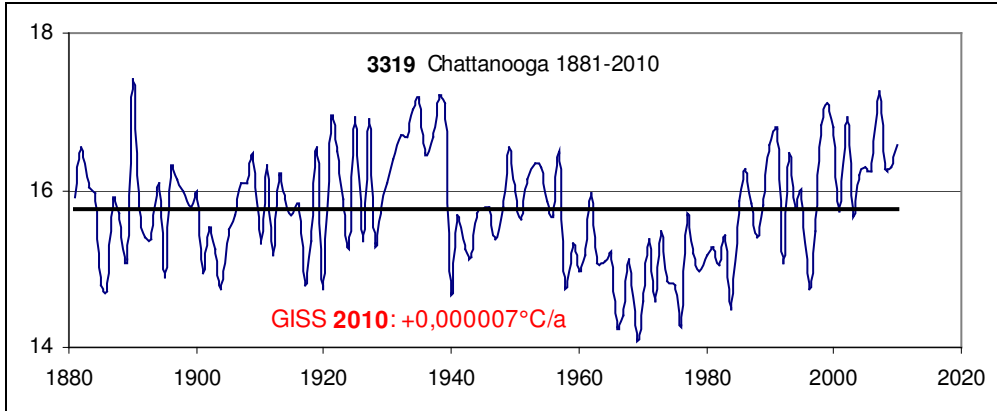




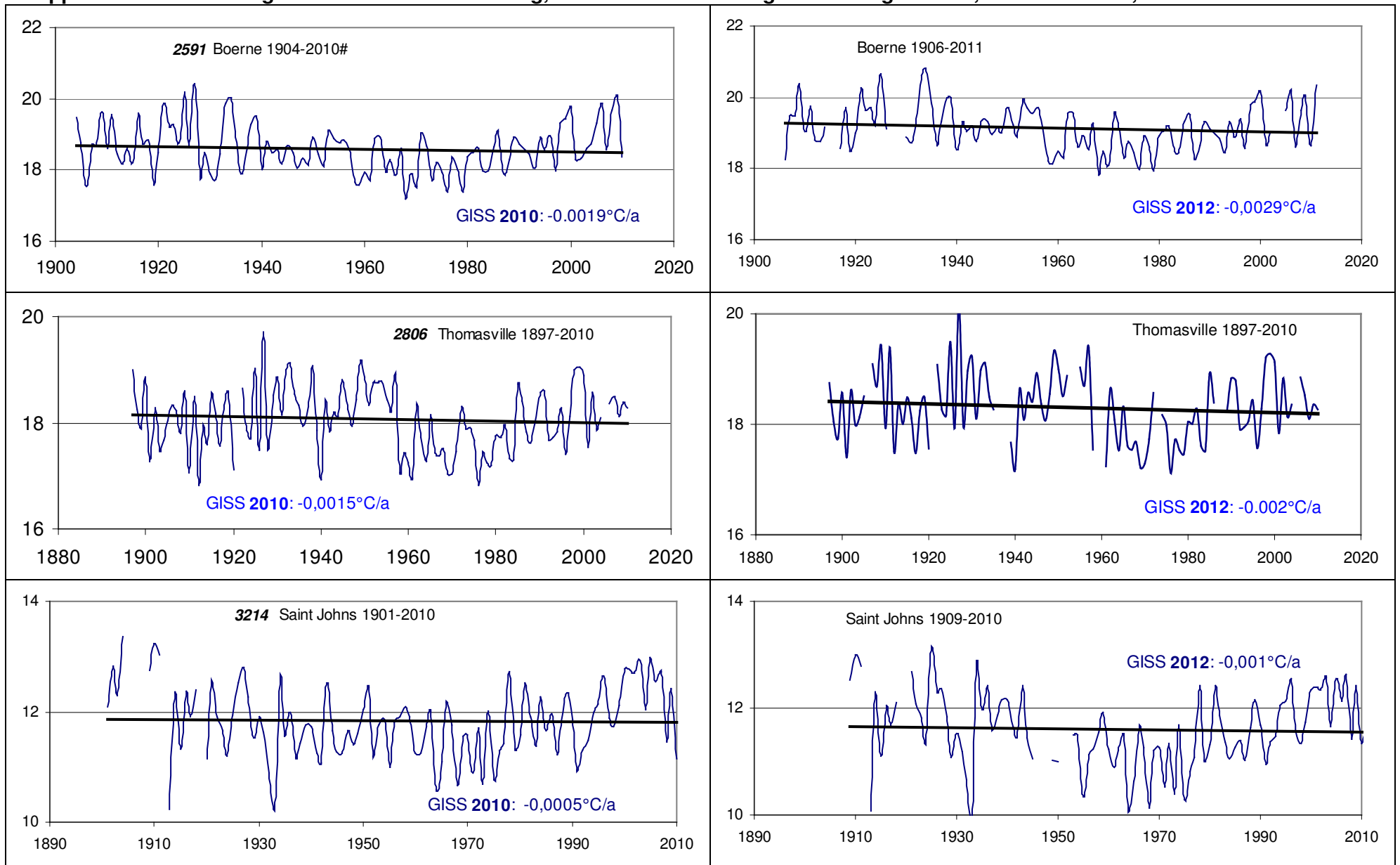
Gruppe 6: 2010 Erwärmung > 2012 geringere Erwärmung, Löschen von Daten; 1 Station – 0,83%



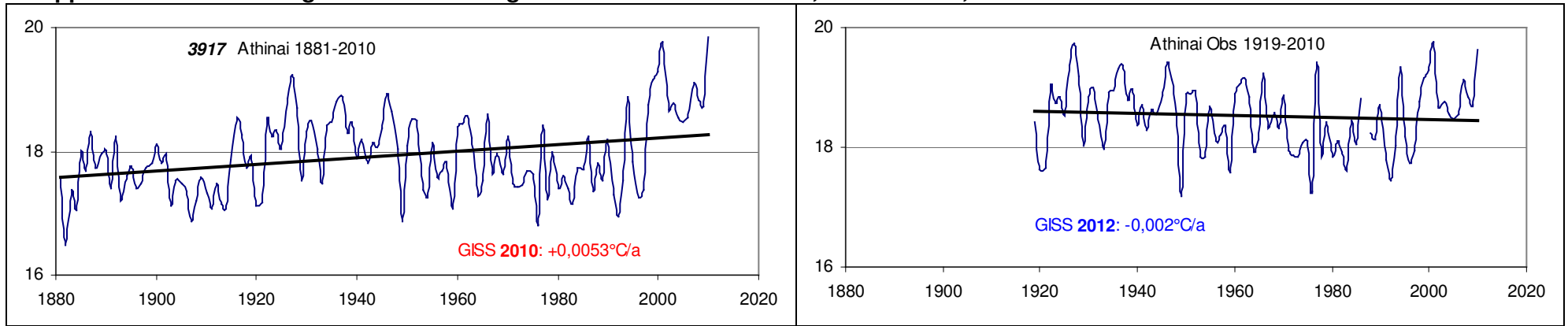
Gruppe 7: 2010 Erwärmung > 2012 Abkühlung durch Inversion, 6 Stationen - 6,0%




Gruppe 8: 2010 Abkühlung > 2012 stärkere Abkühlung, meist durch Erhöhung von Anfangswerten; 3 Stationen – 2,5%



Gruppe 9: 2010 Erwärmung > 2012 Abkühlung durch Löschen von Daten; 1 Station – 0,83%



Gruppe10: 2010 Abkühlung > Abkühlung reduziert, meist durch Erhöhung der Endwerte; 2 Stationen –1,76%

