

Table 11a: Comparison of gradients, differences, number and portion of groups

Legend:		2010 Warming up	2012 warmer	2012 reduced warming	same gradient														
		2010 cooling	2012 cooler	2012 reduced cooling	data parallel lowered														
lfd No	ID	Station	Data		Gradients		Difference	Groups of warming						Groups of cooling					
			from	to	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	1939	2010	0,0033	0,0163	0,0130					1							
9	186	Puert 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 Ae	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 Airp	1943	2010	0,0092	0,0119	0,0027					1							
23	422	Mildura Airp	1947	2010	0,0100	0,0112	0,0012					1							
24	437	Sydney Airp	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 Airp	1942	2010	0,0087	0,0122	0,0035					1							
29	571	Perth Airp	1945	2010	0,0131	0,0087	-0,0044							1					

lfd No	ID	Station	Data		Gradients			Groups of warming up						Groups of cooling					
			from	to	2010	2012	Difference	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					
	Number	(n)			120	120		1	19	12	5	41	29	1	6	3	1	2	
	Warming up	(n)			93	108													
	dto.	(%)			77,50	90,00													
	Cooling	(n)			27	12													
	dto.	(%)			22,50	10,00													
					Number of groups (n)			1	19	12	5	41	29	1	6	3	1	2	
					Portion of groups (%)			0,83	15,8	10,0	4,2	34,2	24,2	0,8	5,0	2,5	0,8	1,7	
					Portion Warming up / Cooling (%)						90,0							10,00	

Comparison of Temperature curves of all 120 Stations

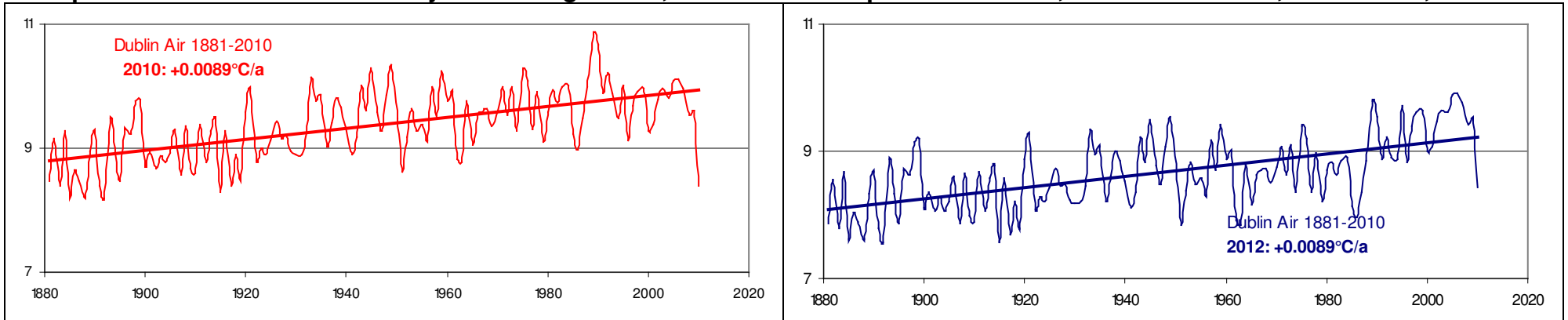
classified according to method of modification

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

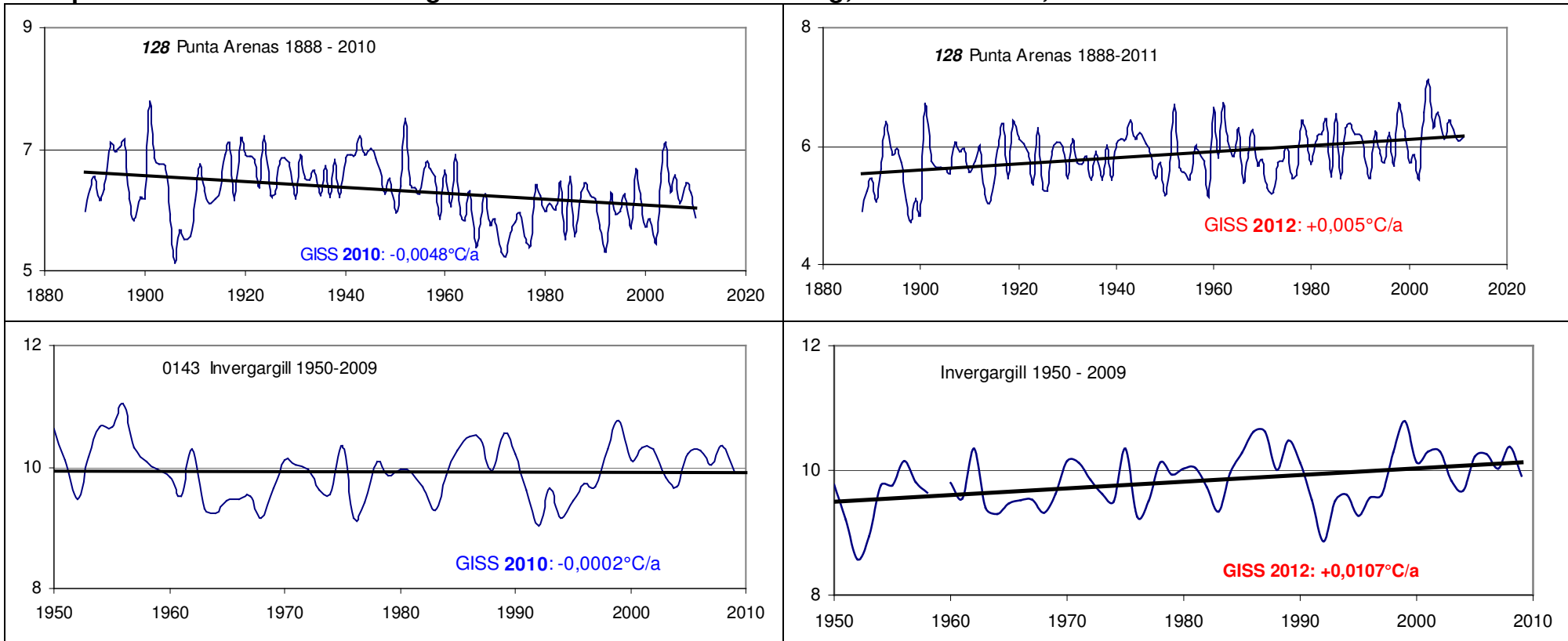
left: NASA-GISS-Data 2010 right: NASA-GISS-Data 2012

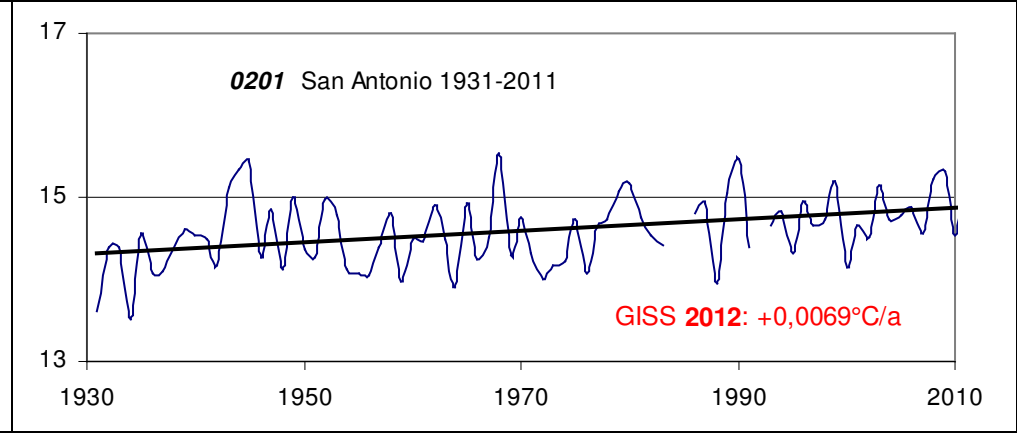
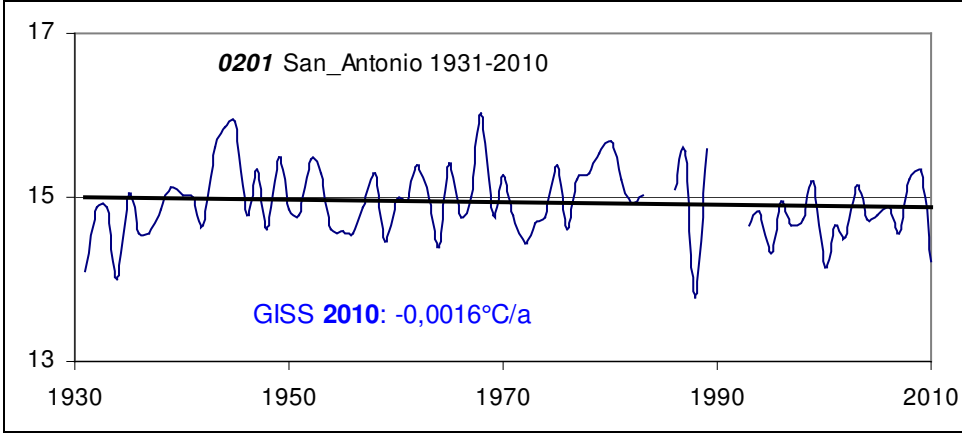
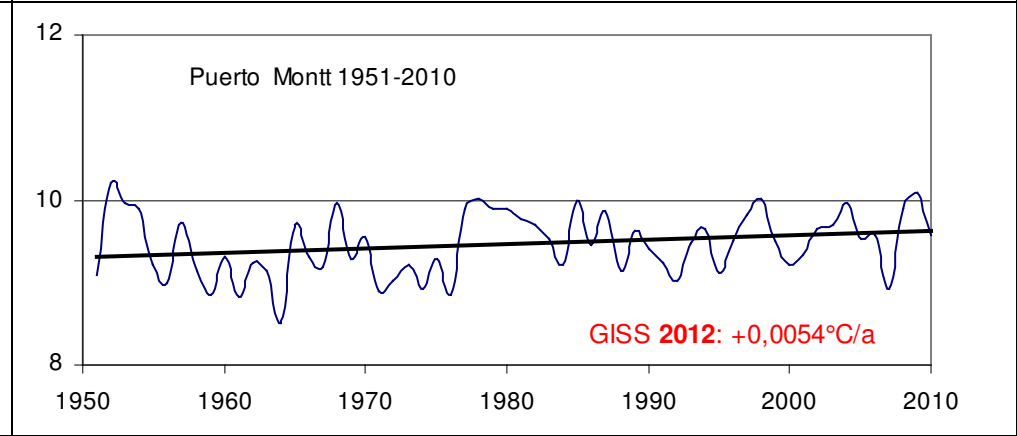
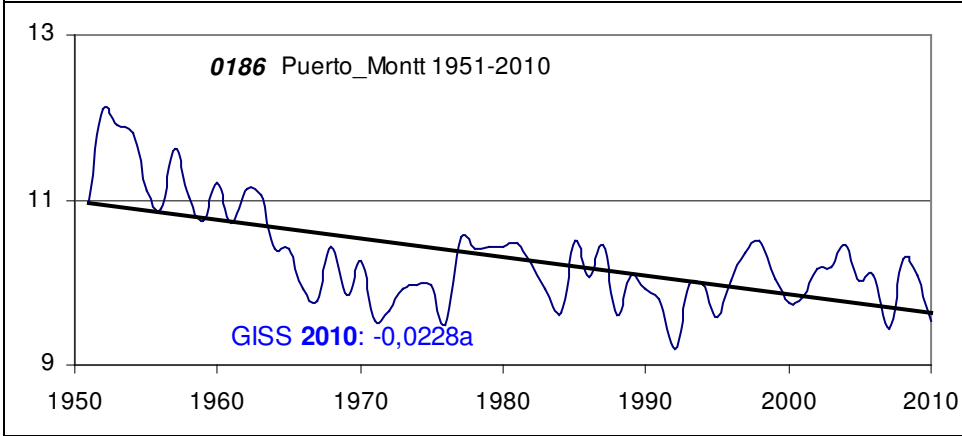
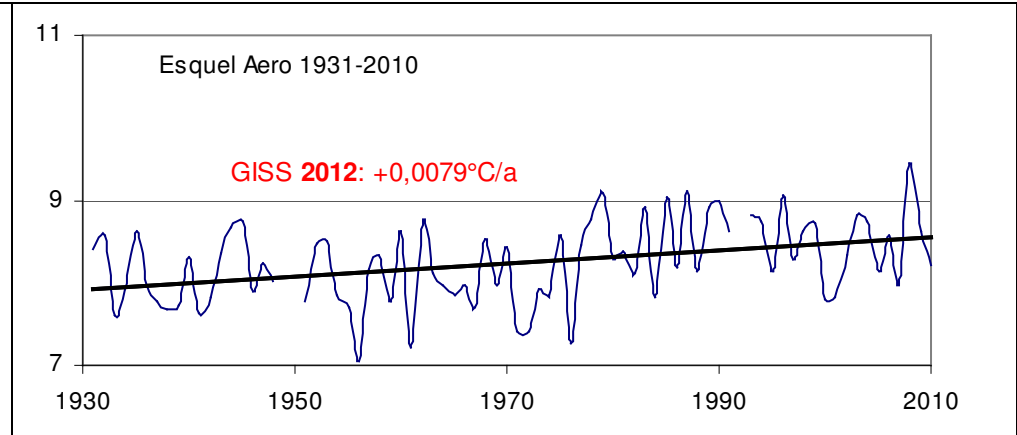
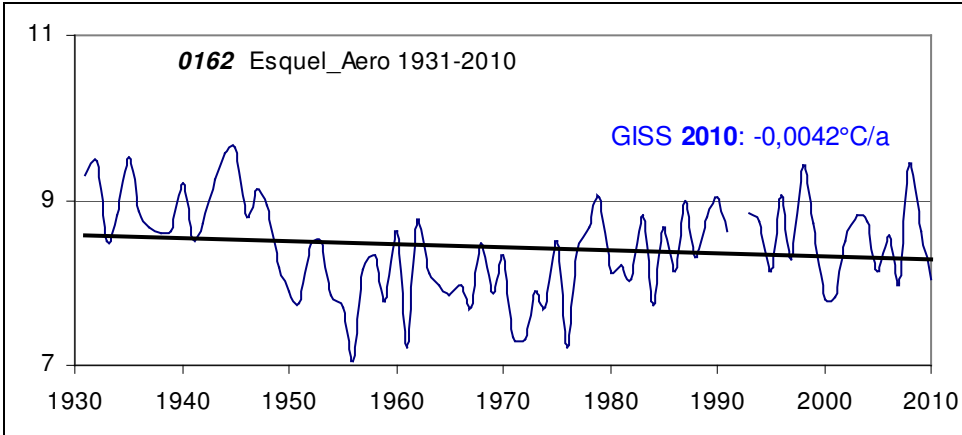


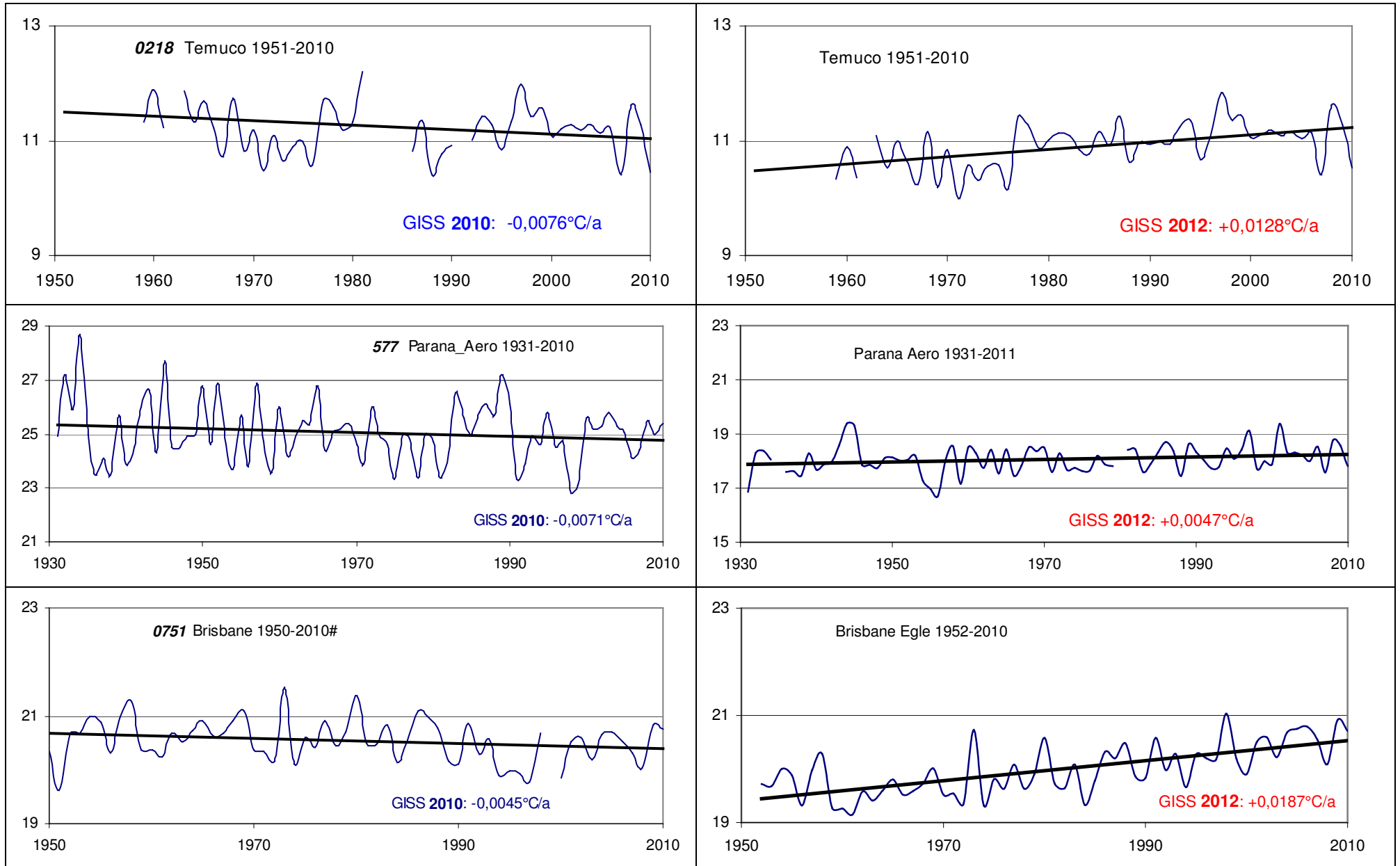
Group 0: 2010-Data and 2012-Data yield same gradient, 2012-Data were parallel lowered, final values lifted; 1 station: 0,83%

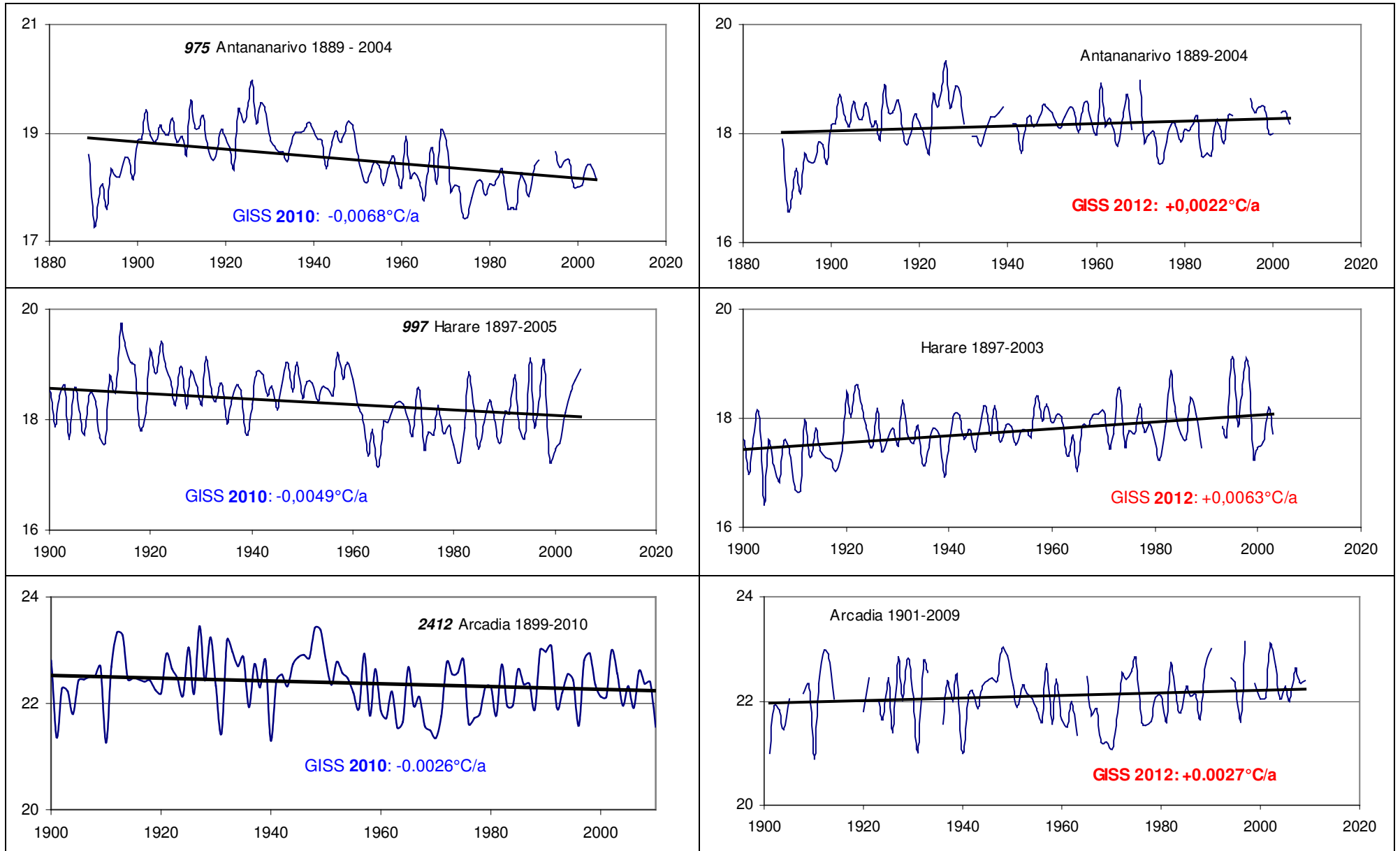


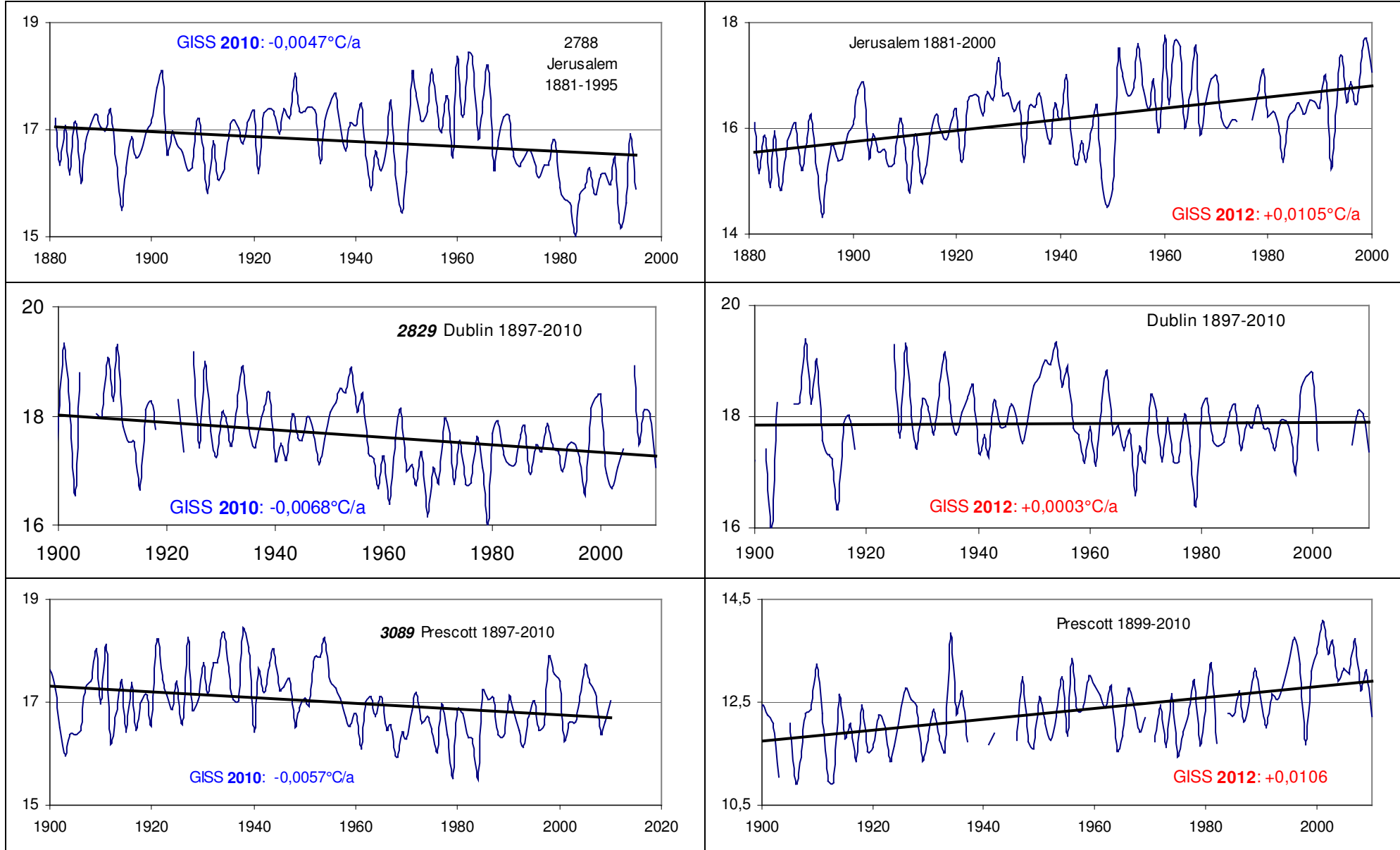
Group 1: 2010-Data indicate cooling: 2012-Data: inversion to warming; 19 stations: 15,83%

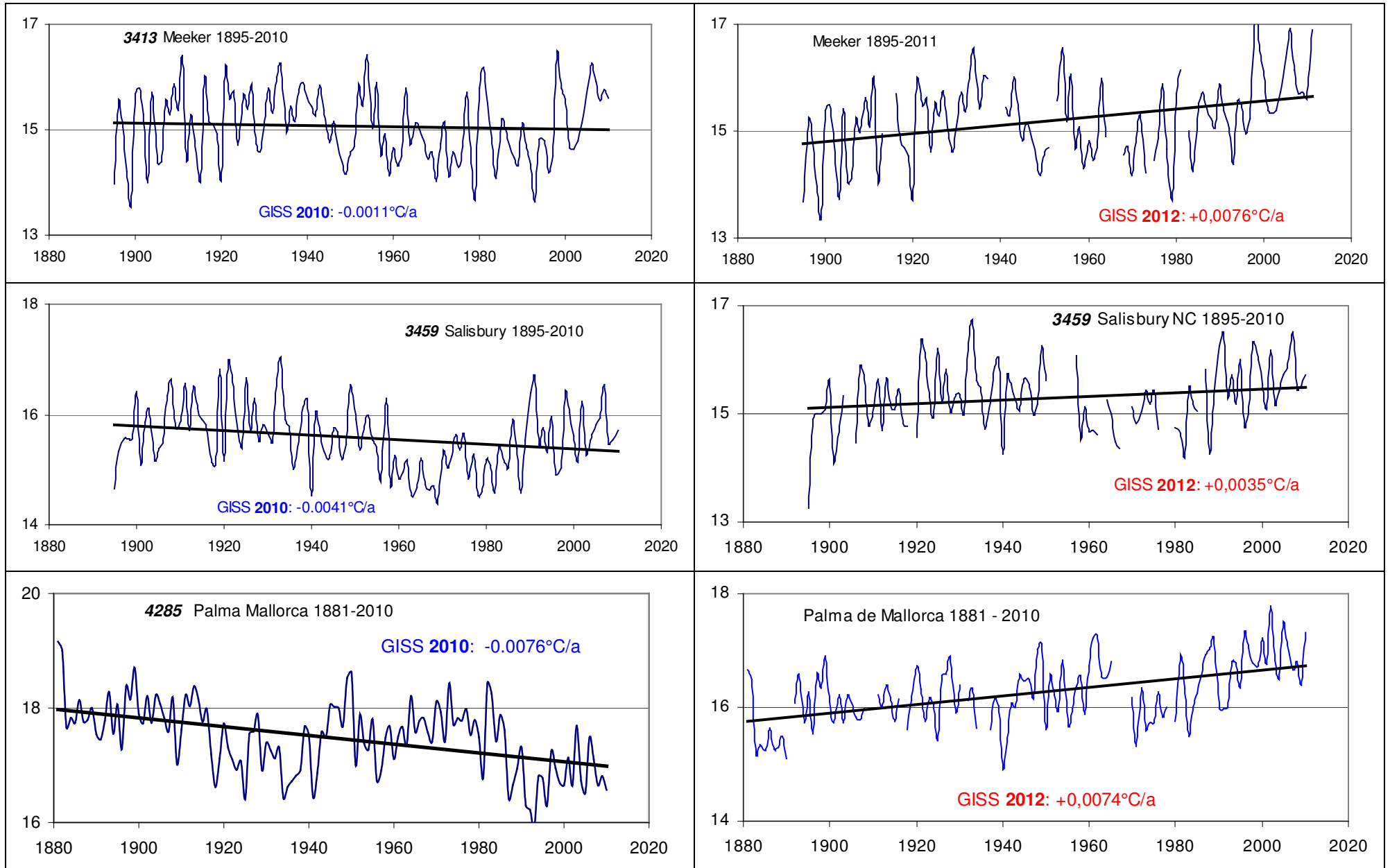


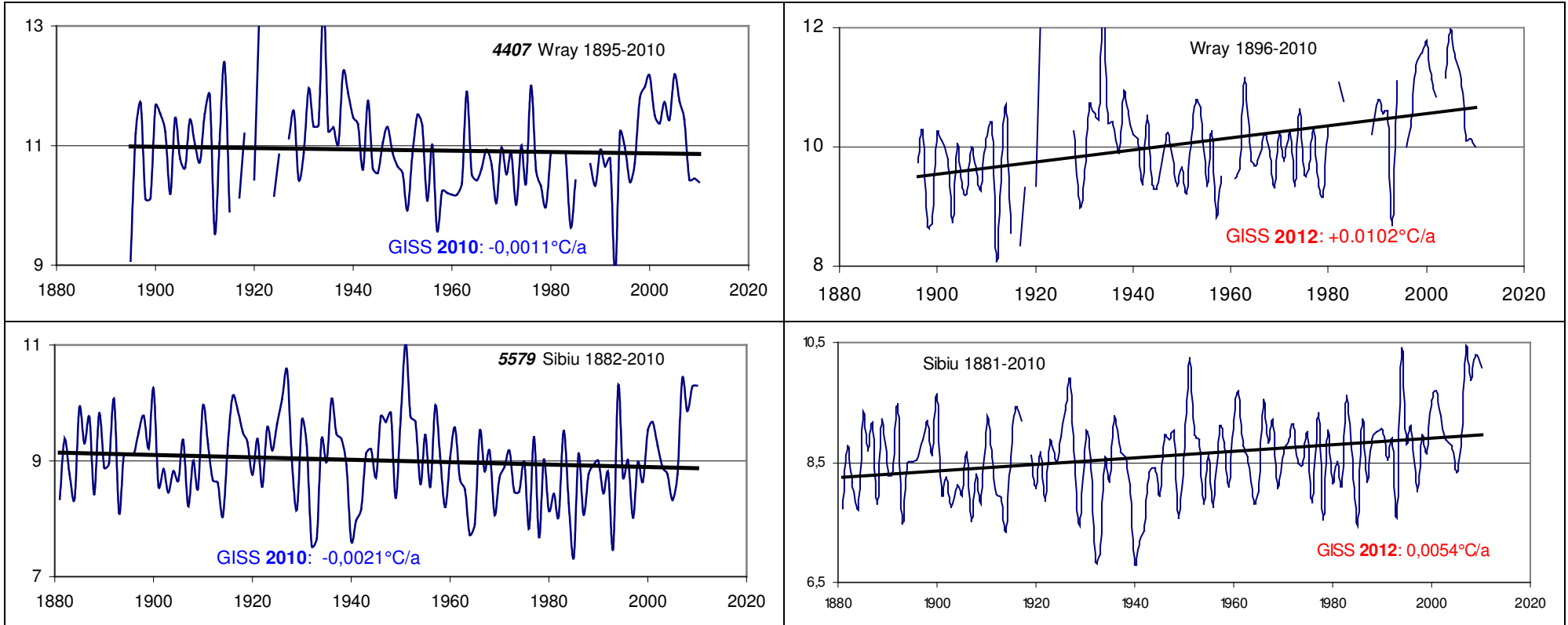




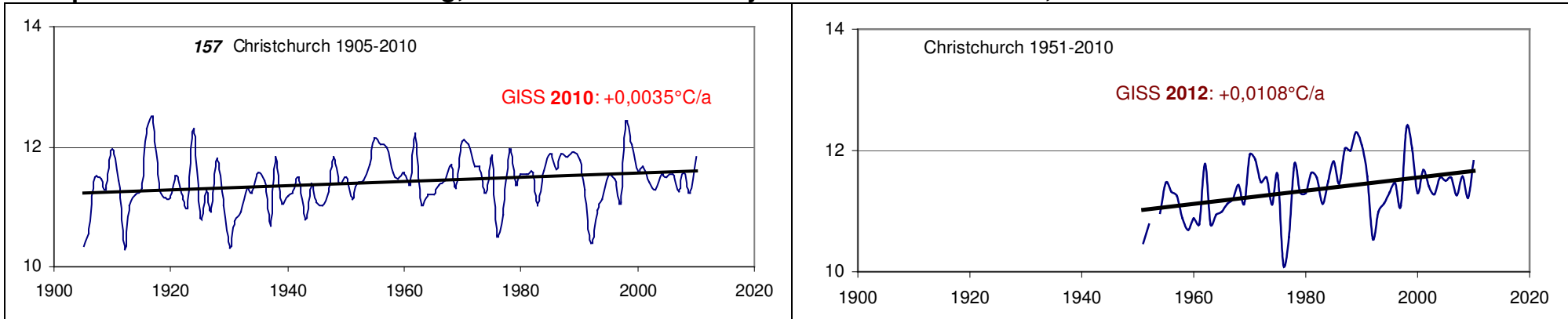


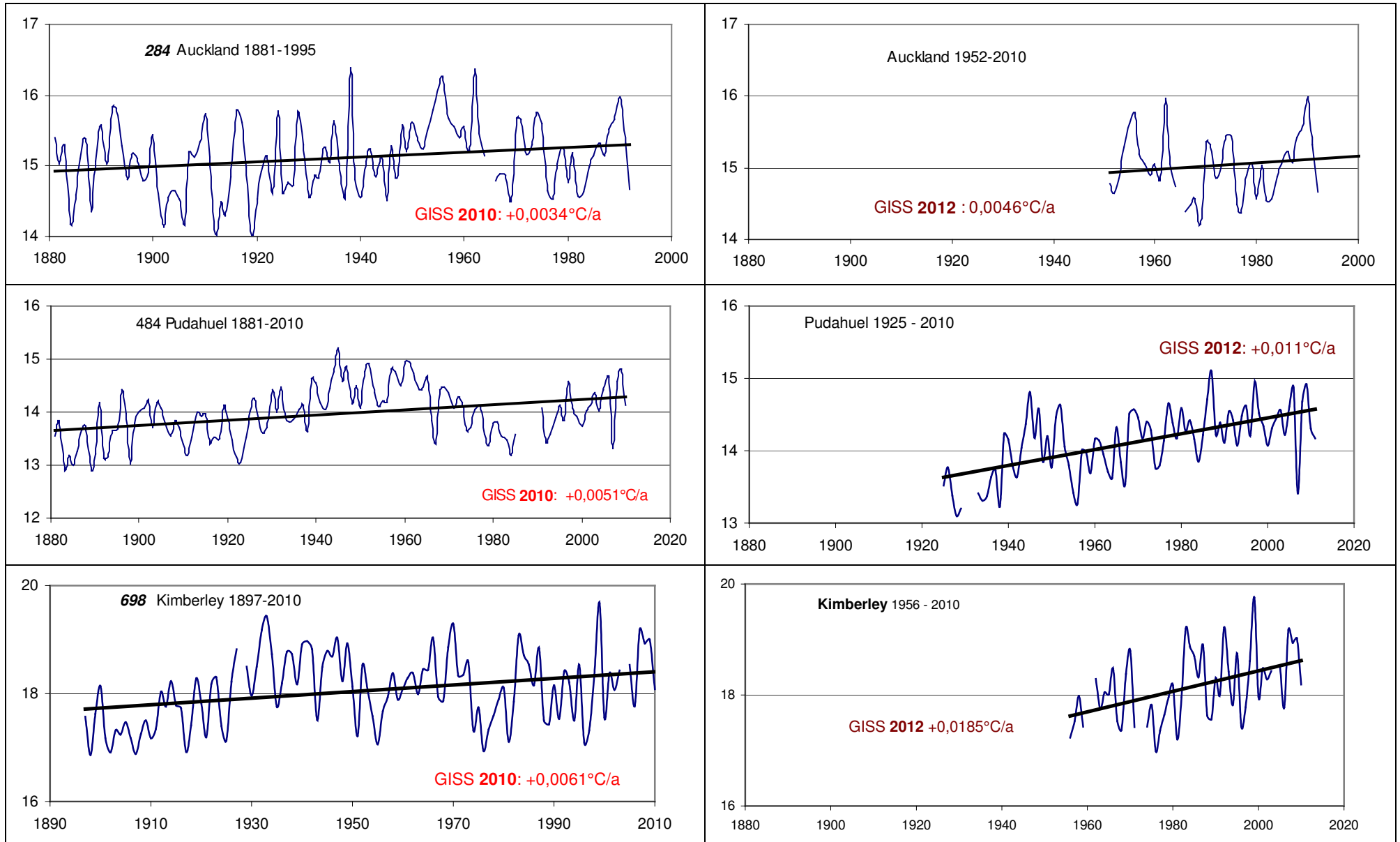


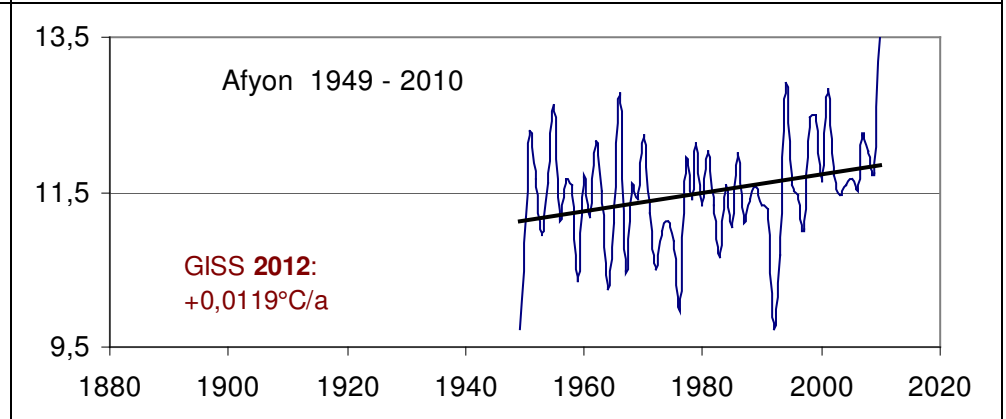
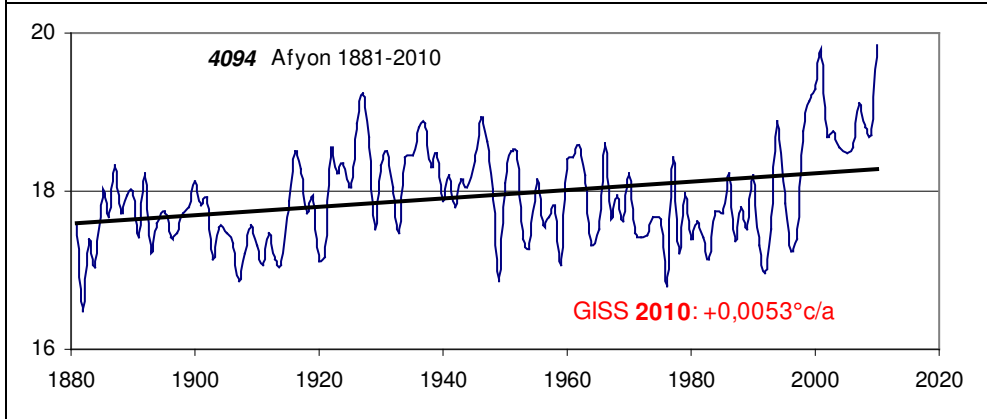
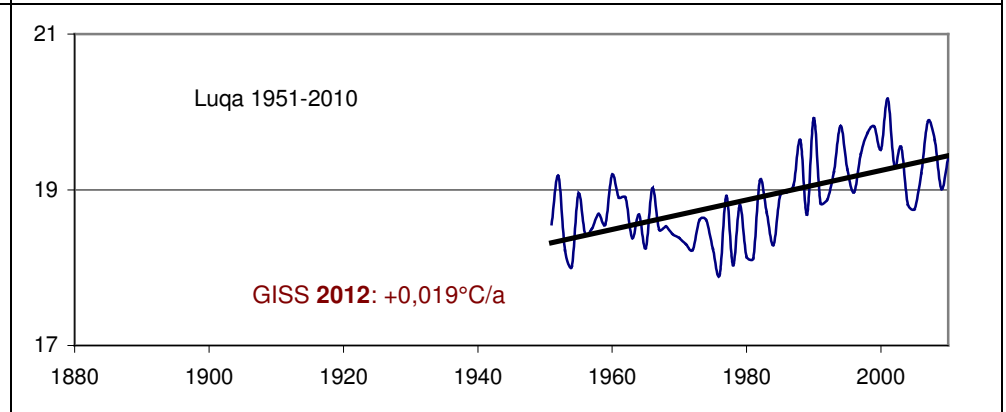
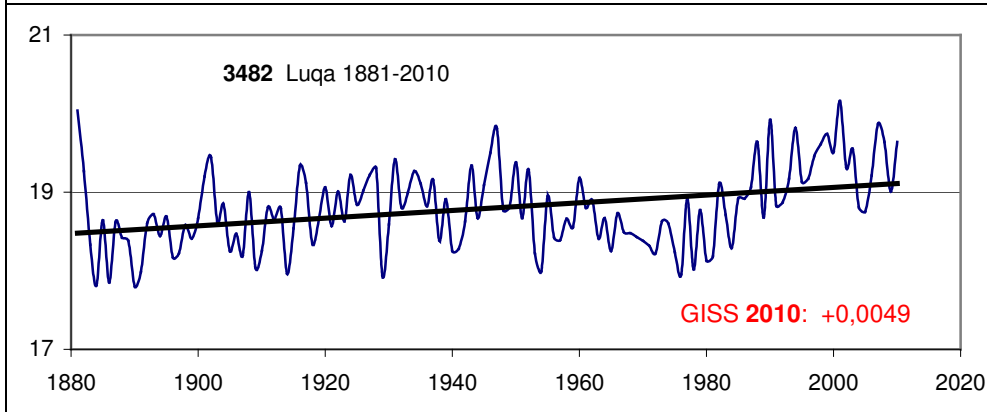
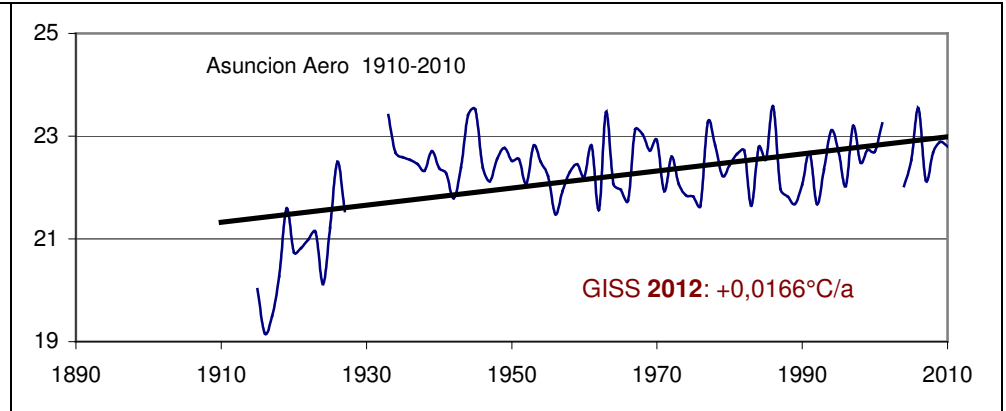
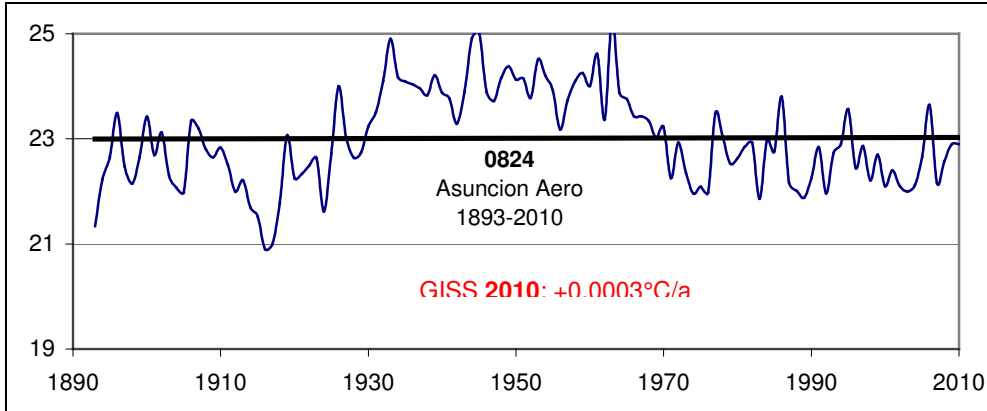


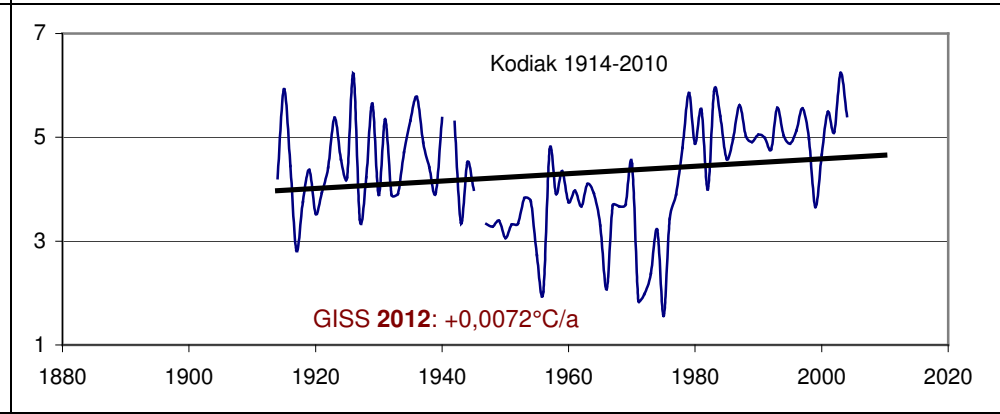
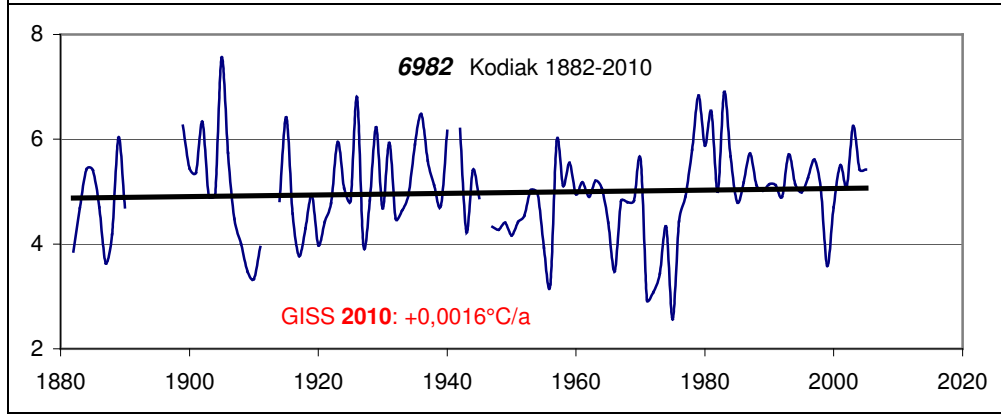
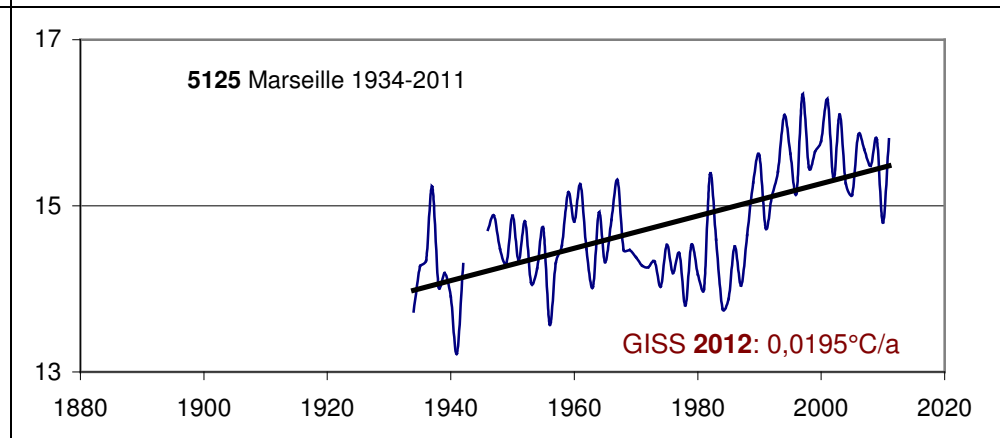
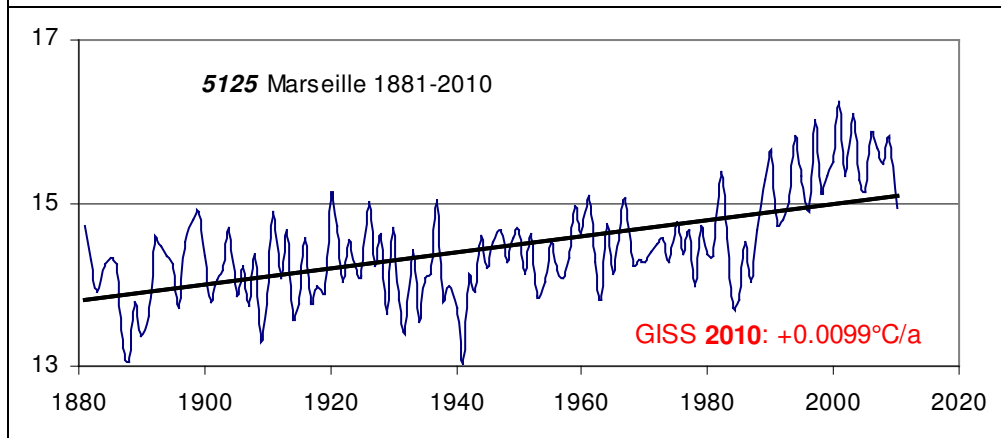
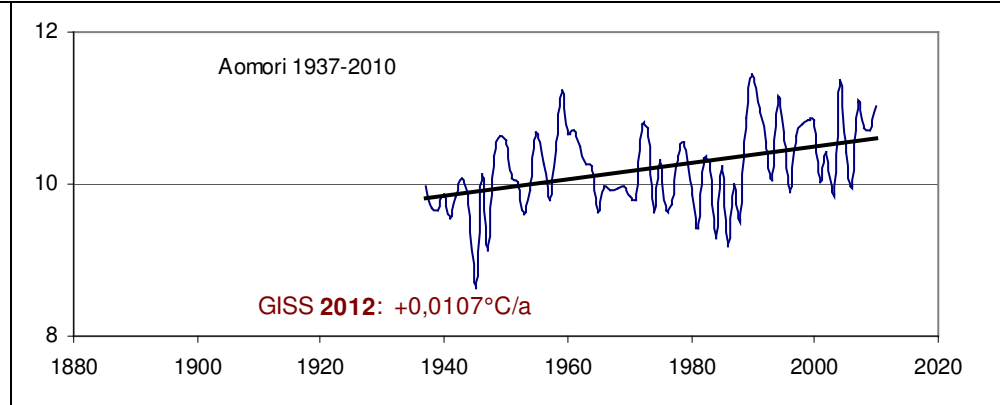
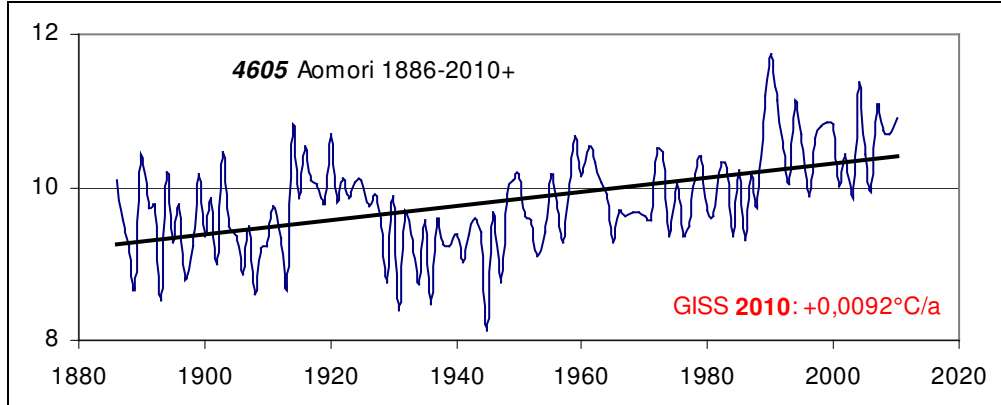


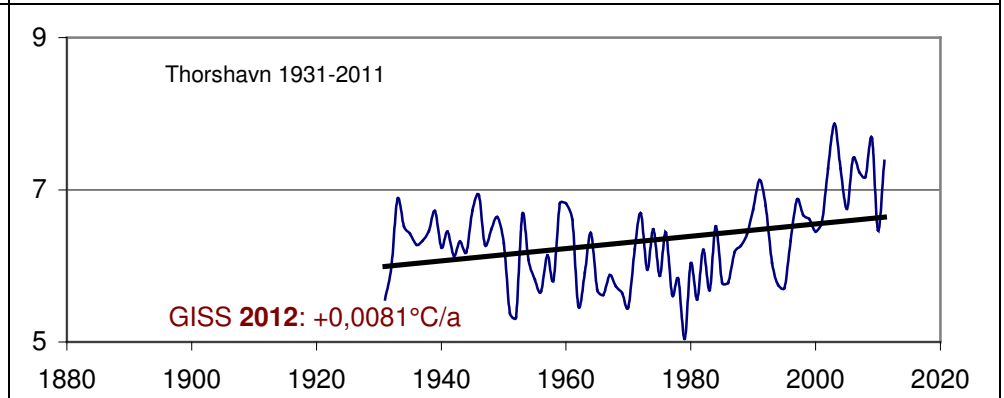
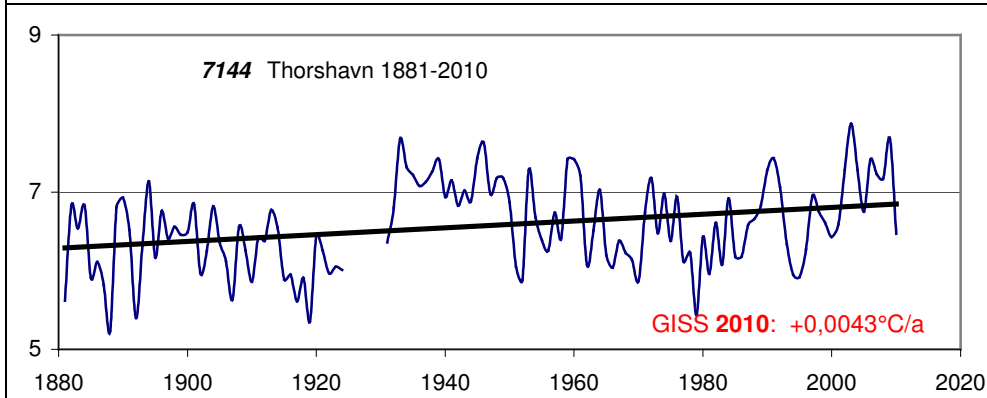
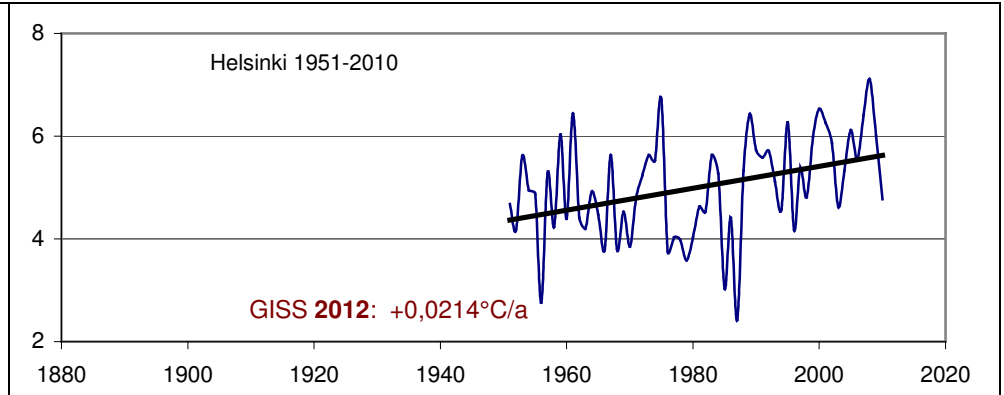
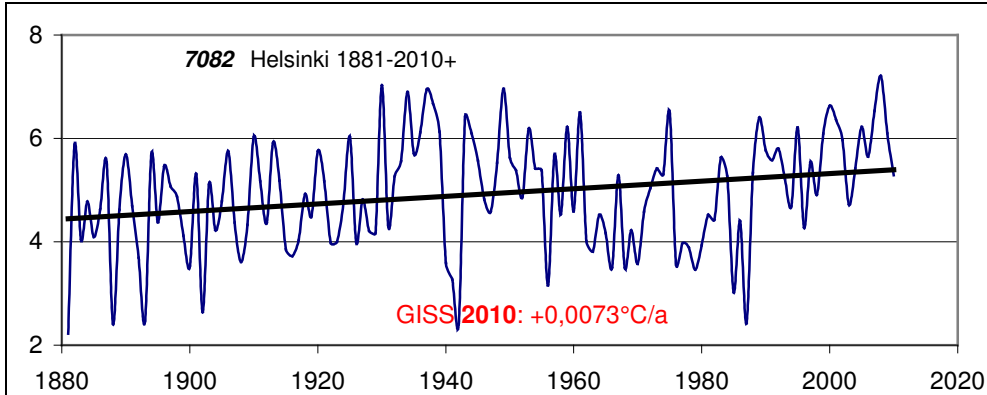
Group 2: 2010-Data indicate warming; 2012-Data: increased by deletion of first section; 12 stations: 10.0%



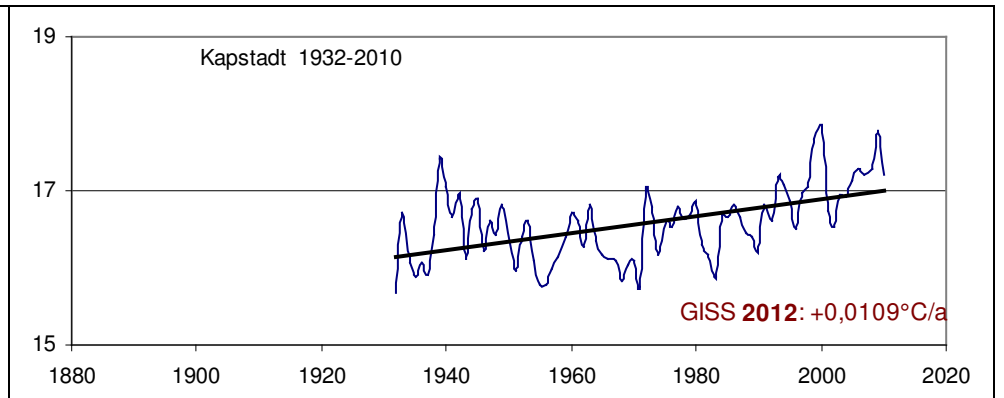
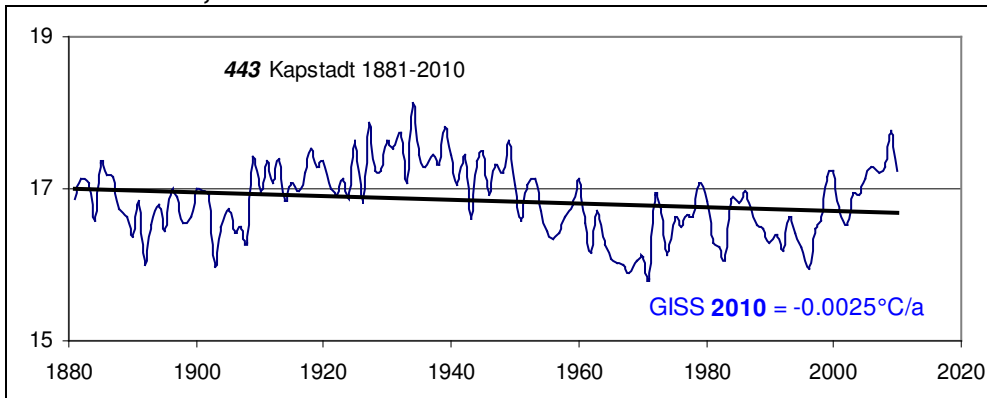


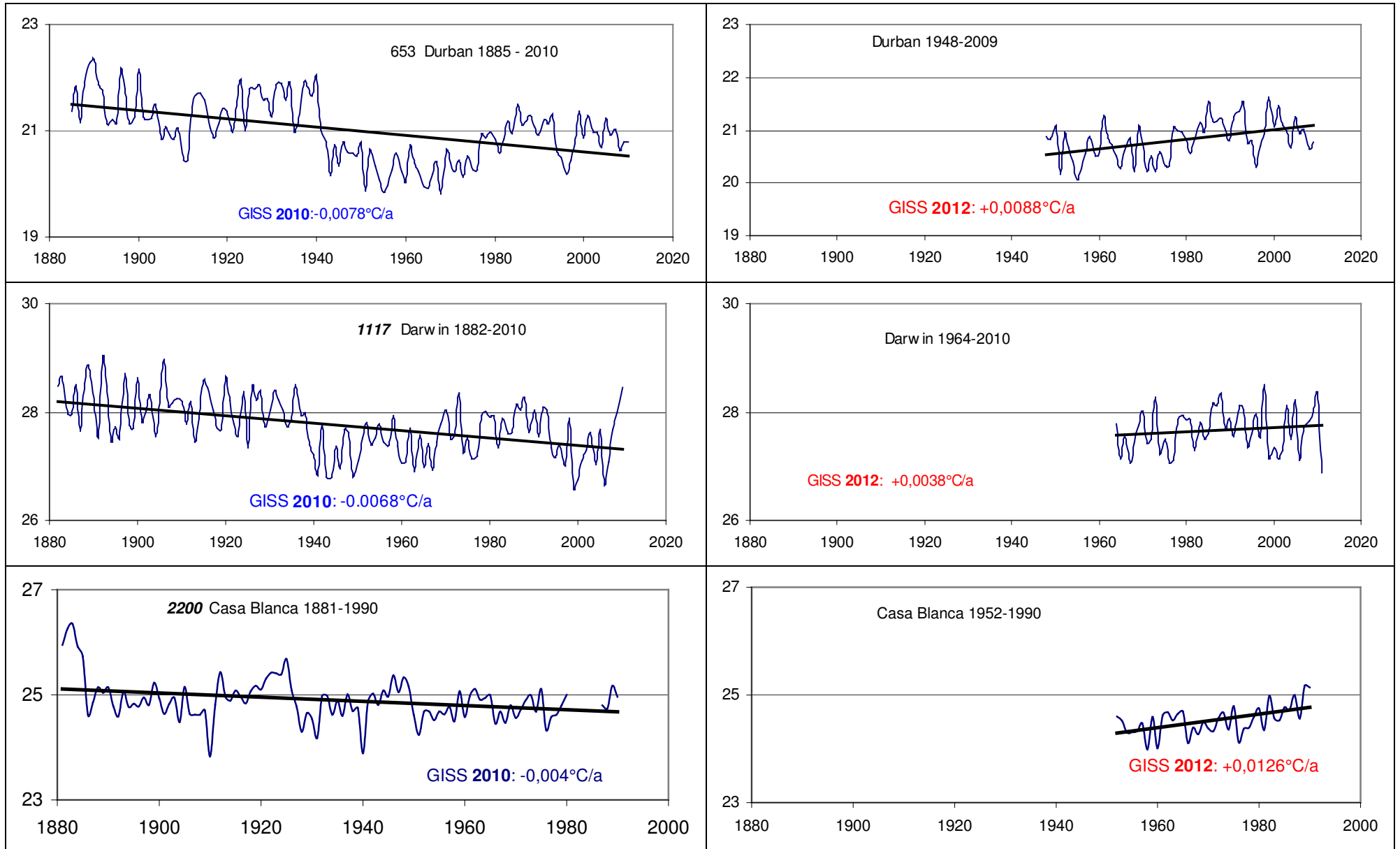


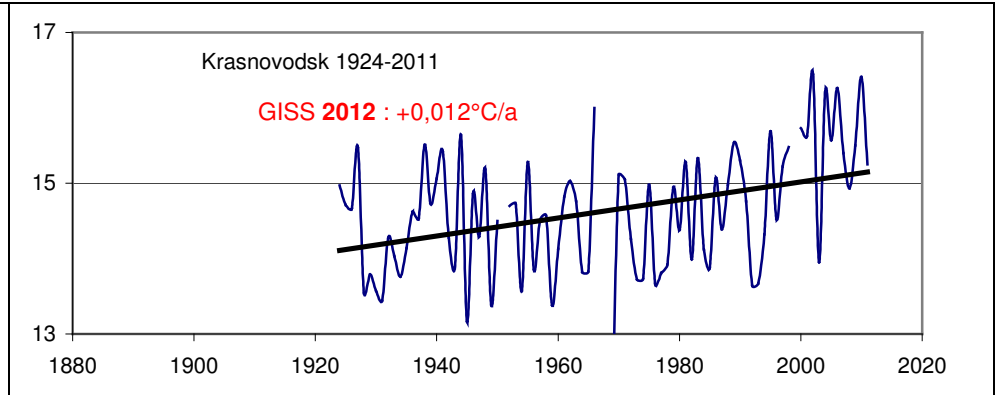
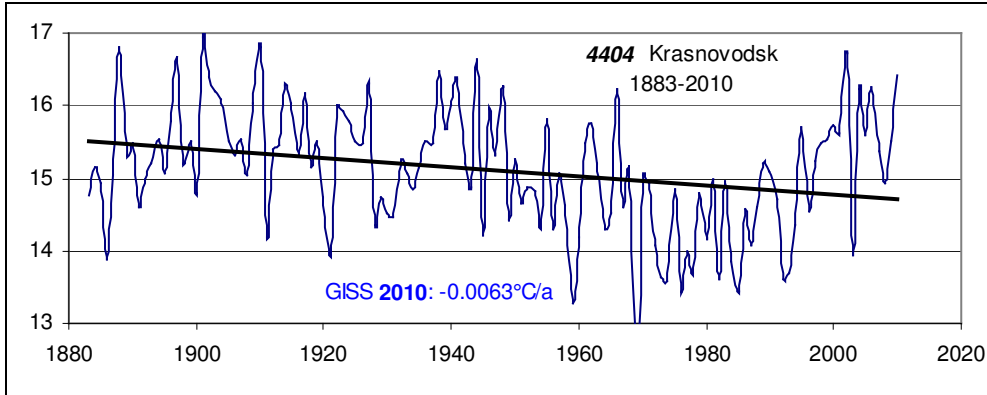




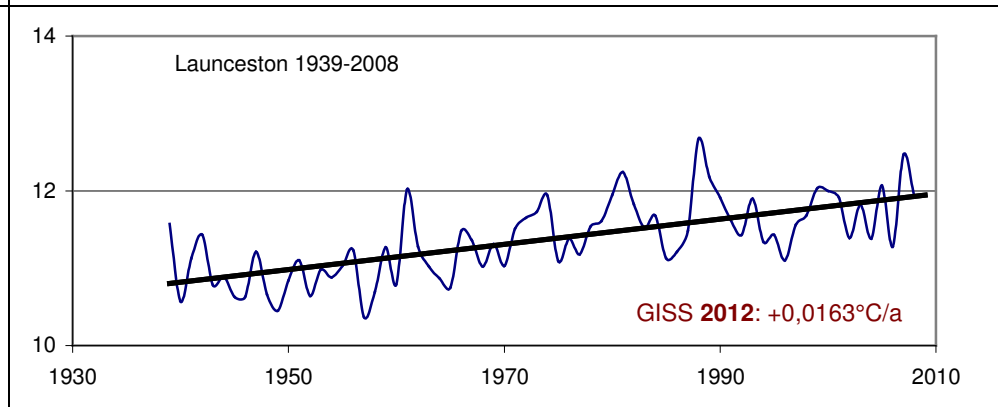
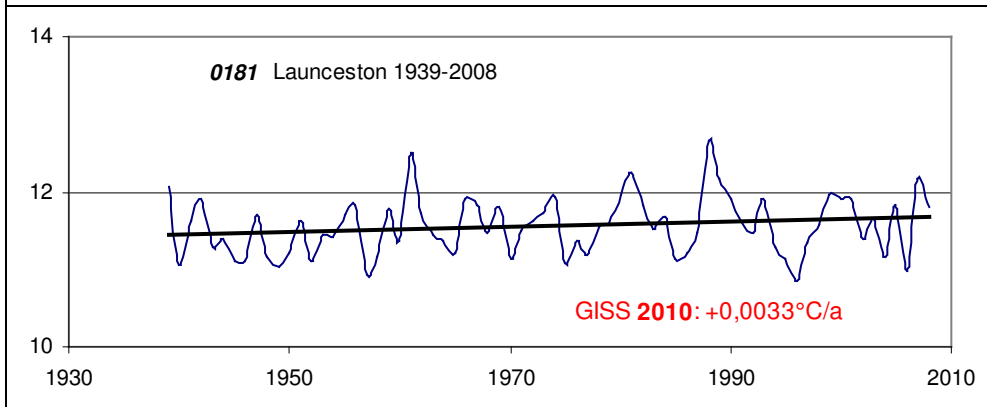
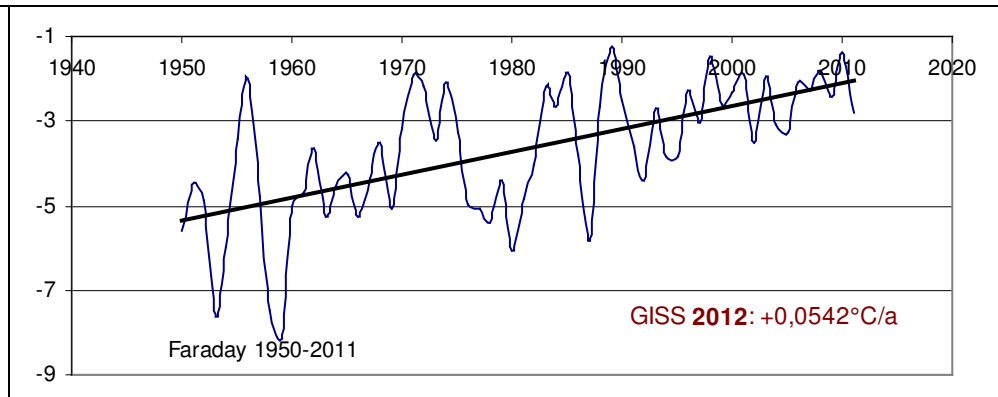
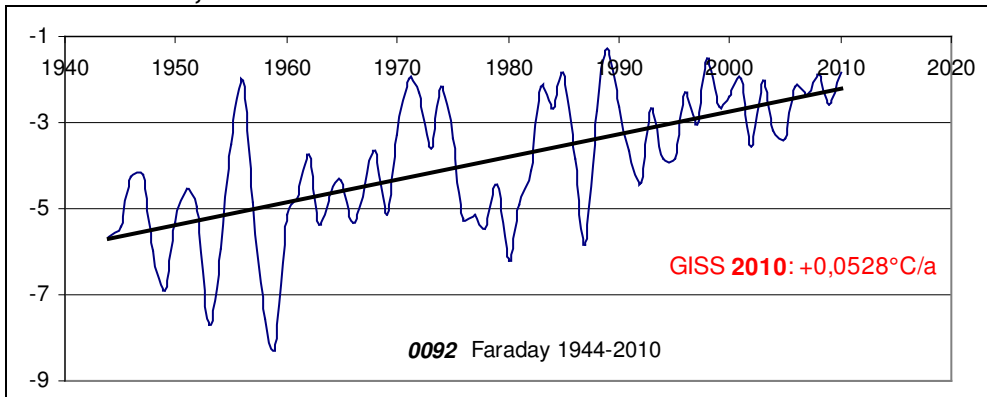
Group 3: 2010-Data indicate cooling; 2012-Data: warming achieved by deletion of section 1880-1963 and lifting of final values; 5 stations: 4,17%

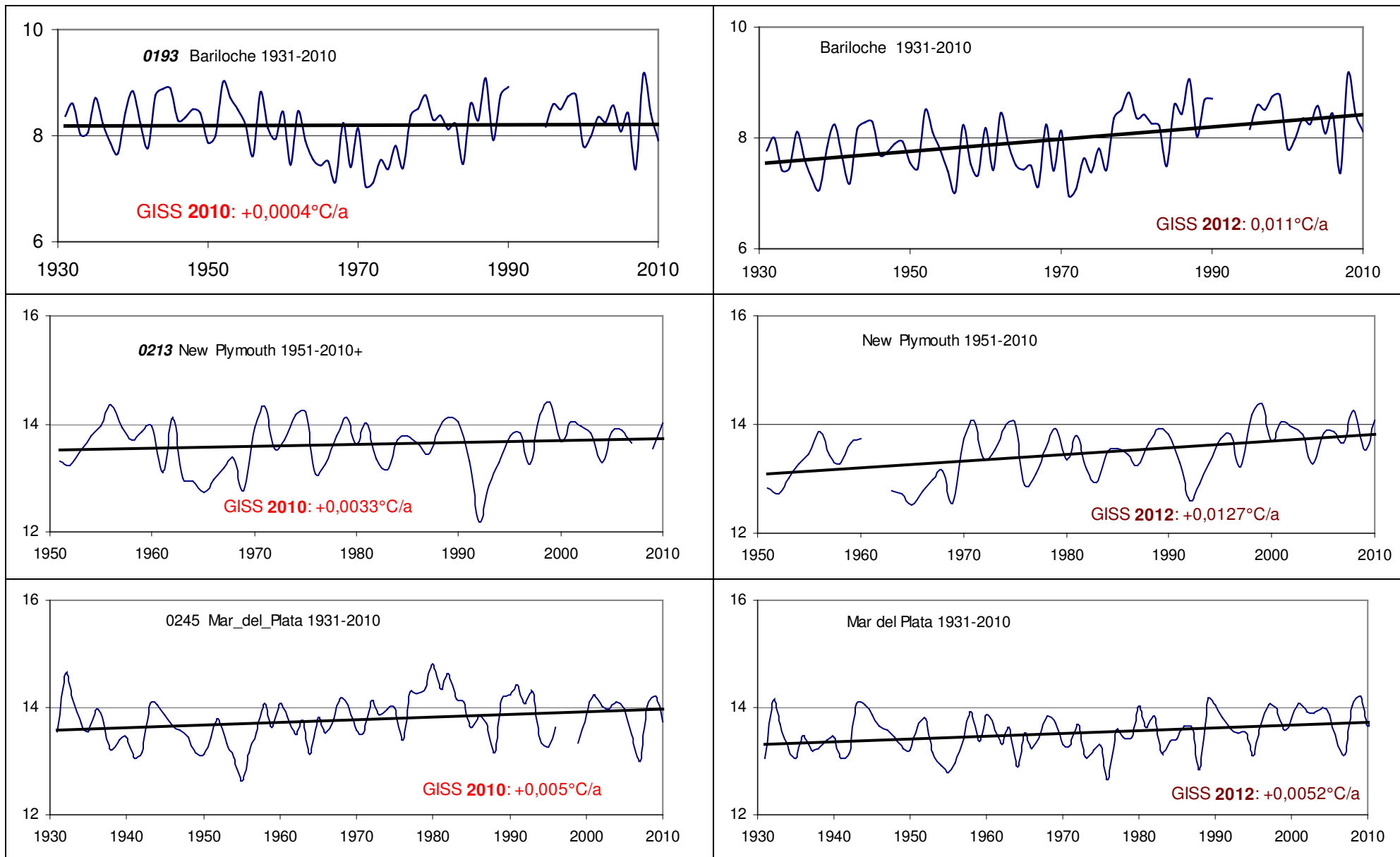


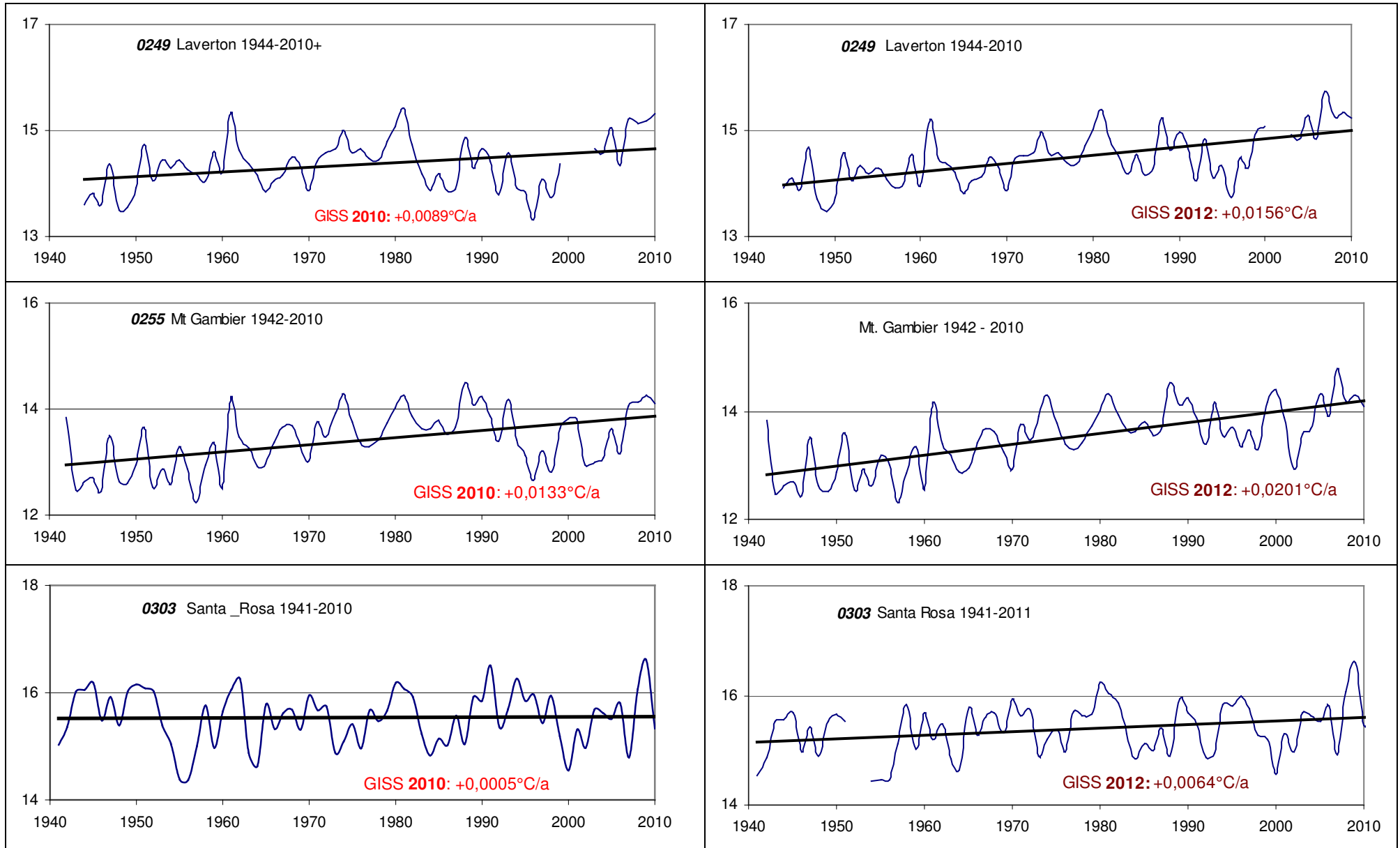


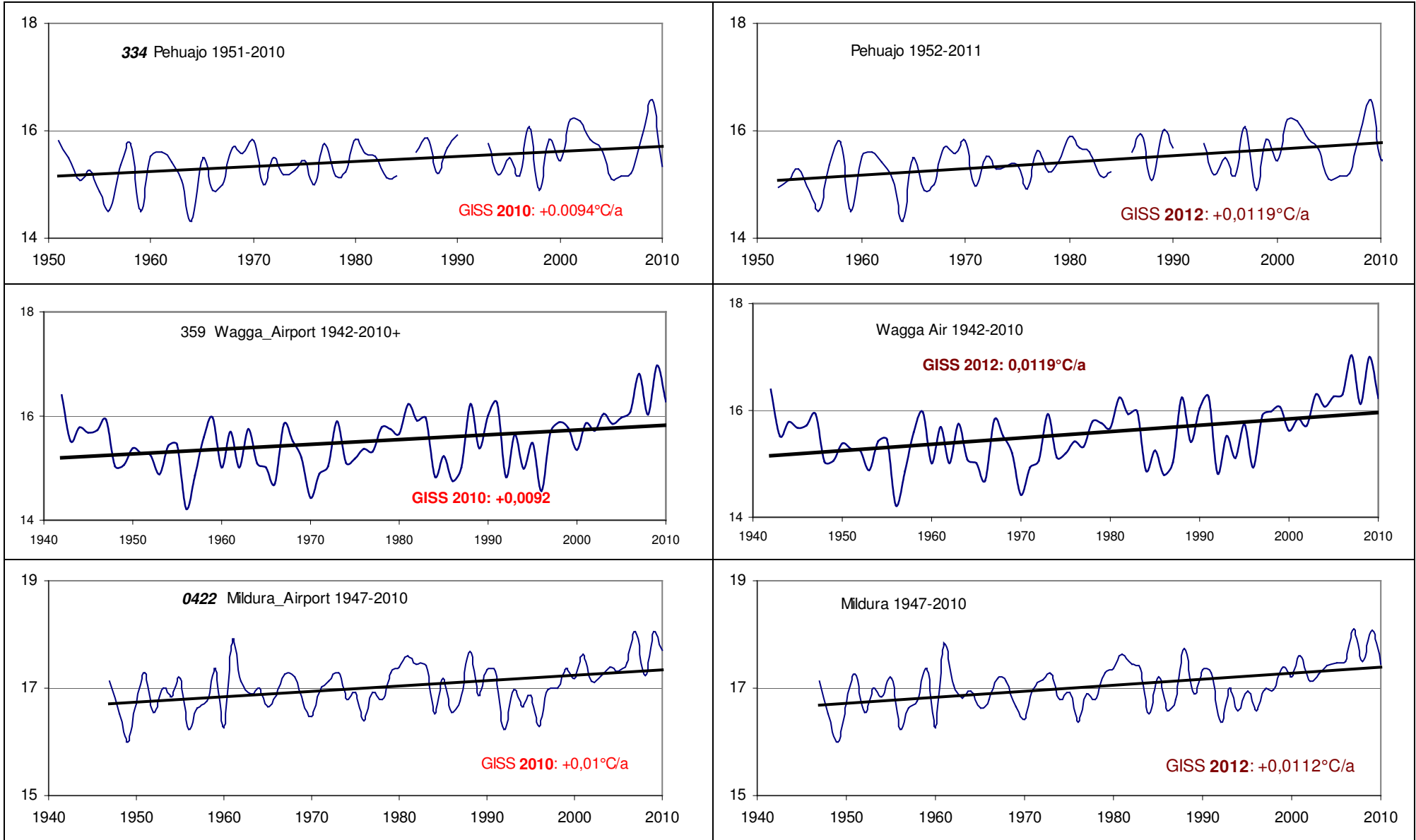


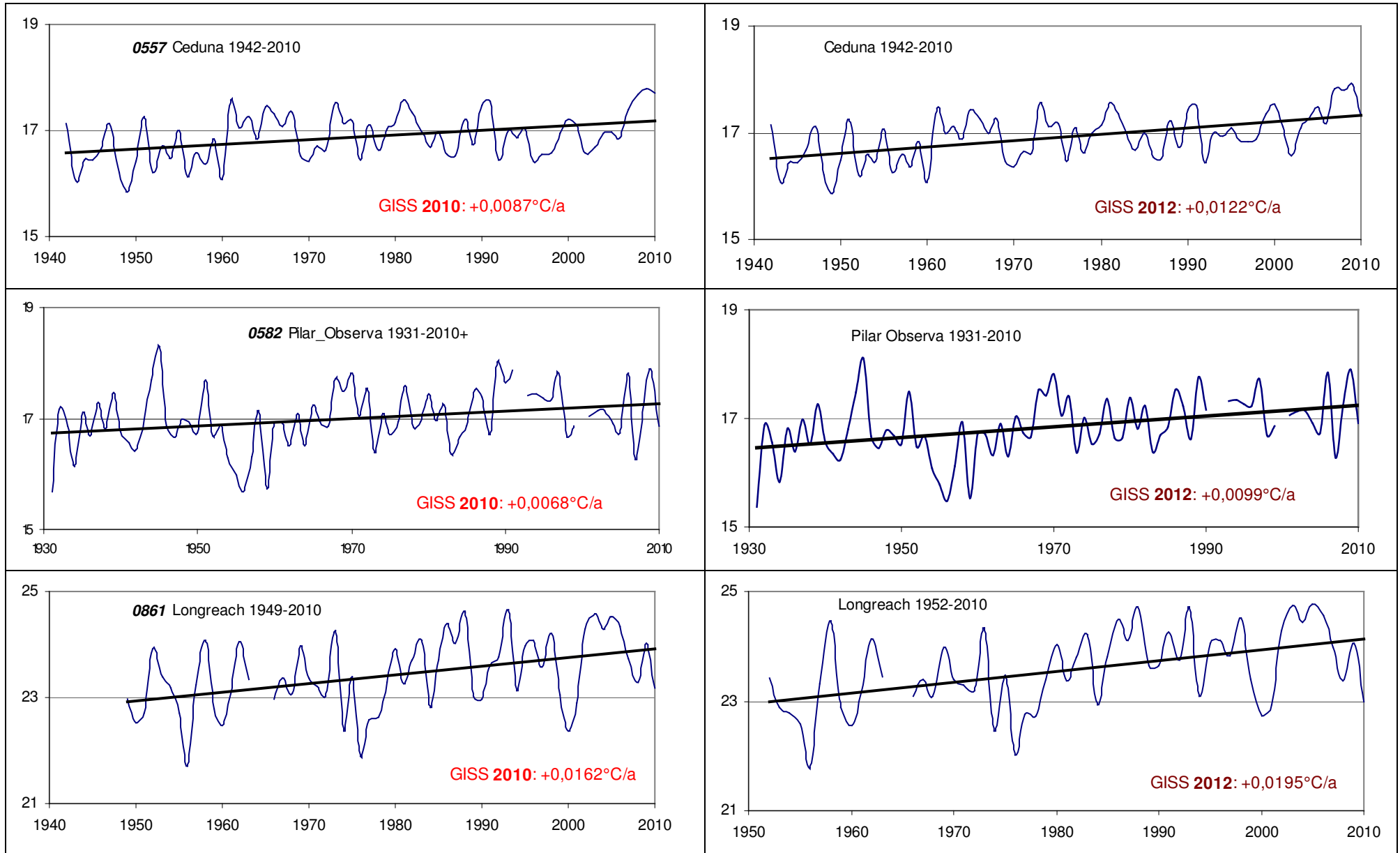
Group 4: 2010-Data registered warming, 2012-Data: increased by lowering initial and central values and lifting final values; 41 stations: 34,2 %

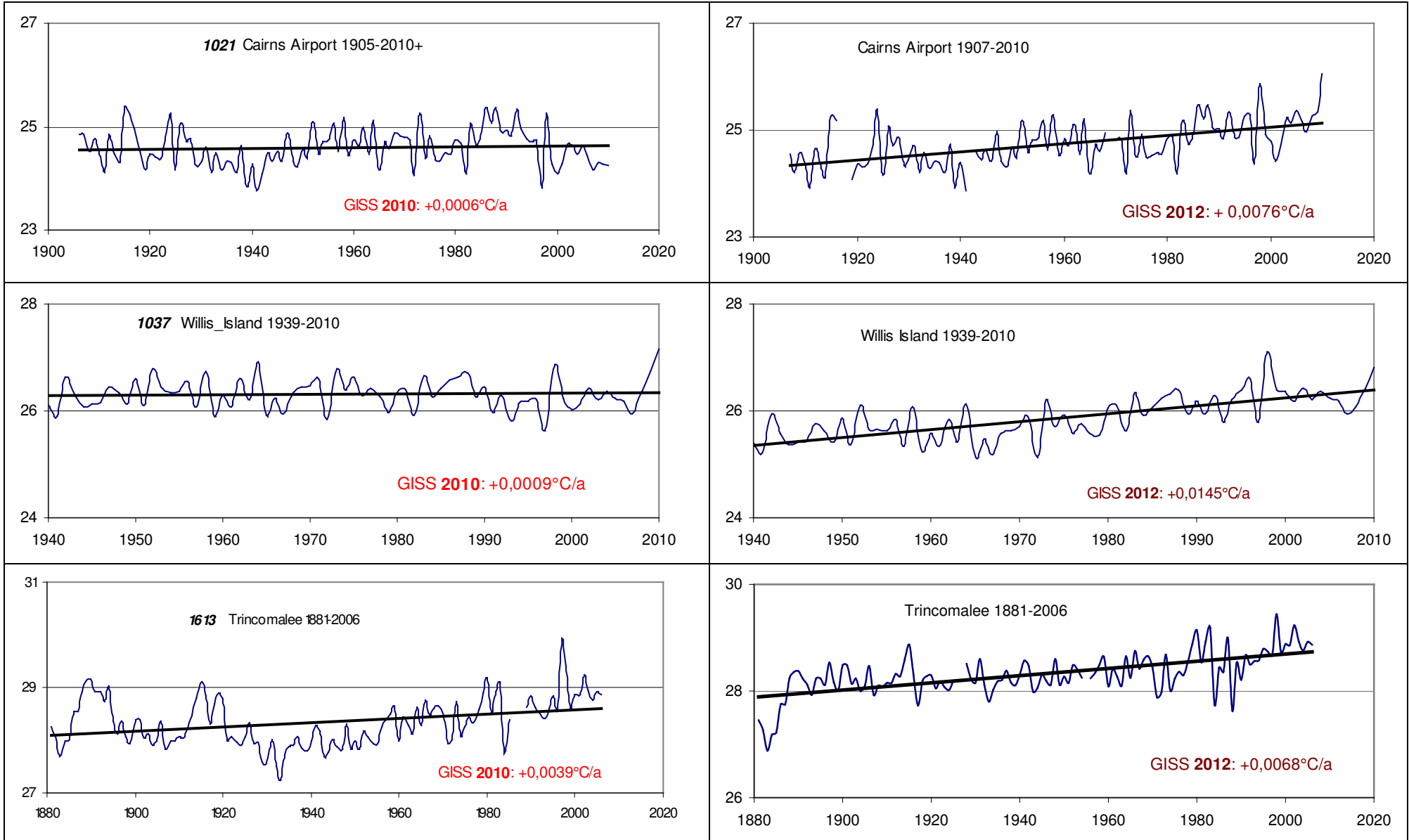


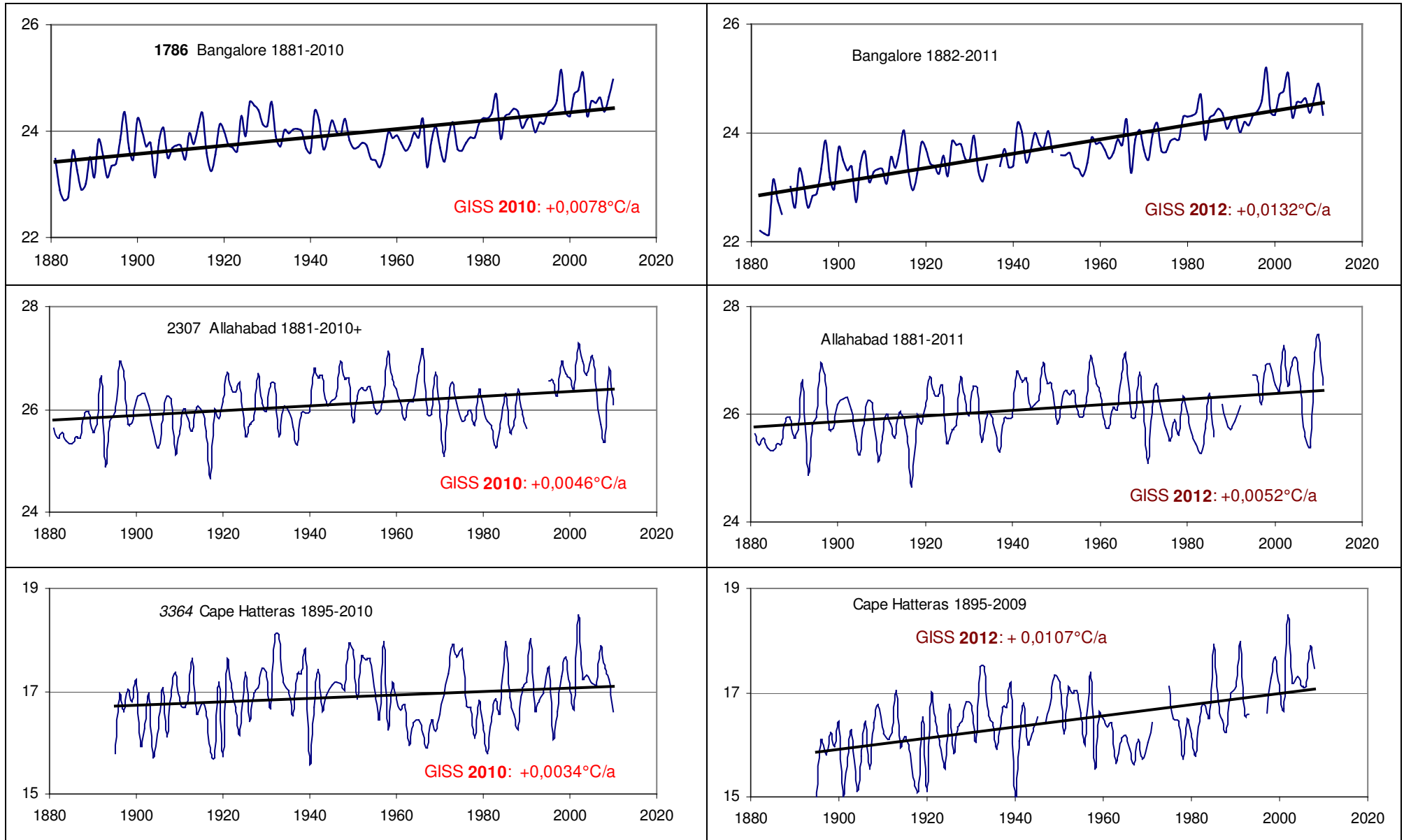


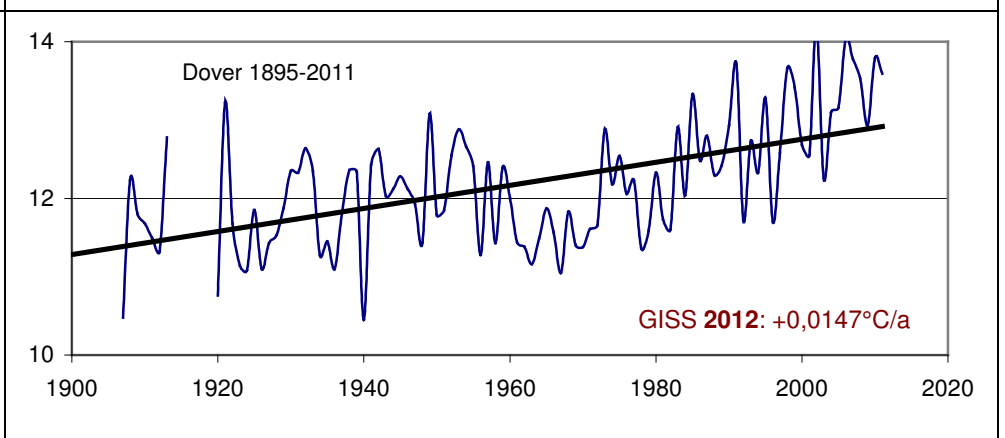
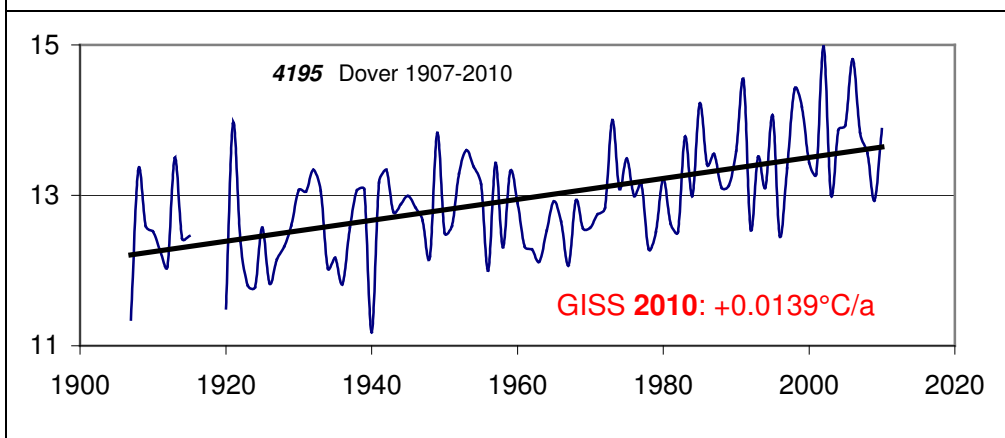
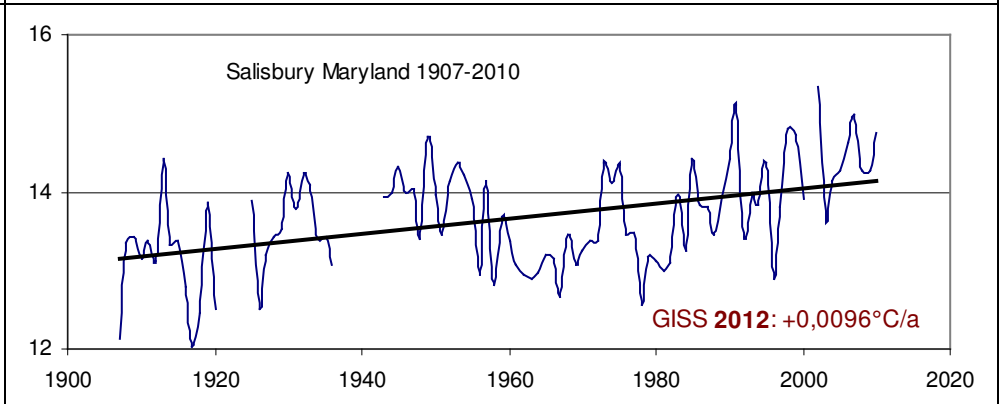
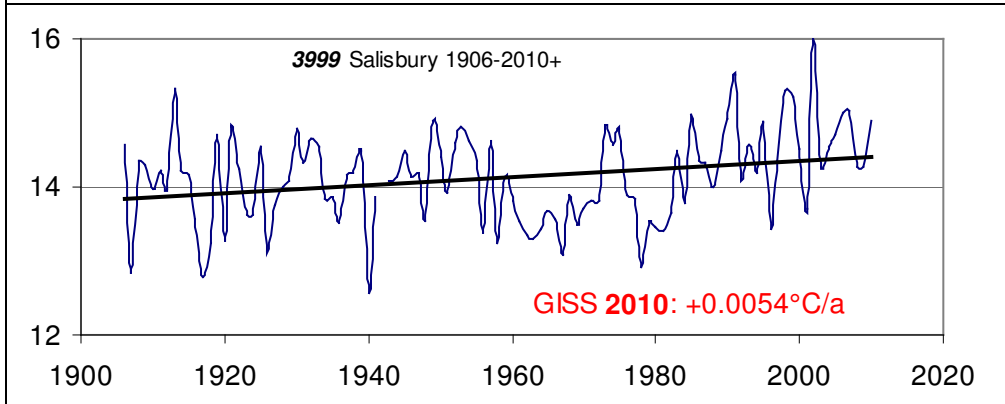
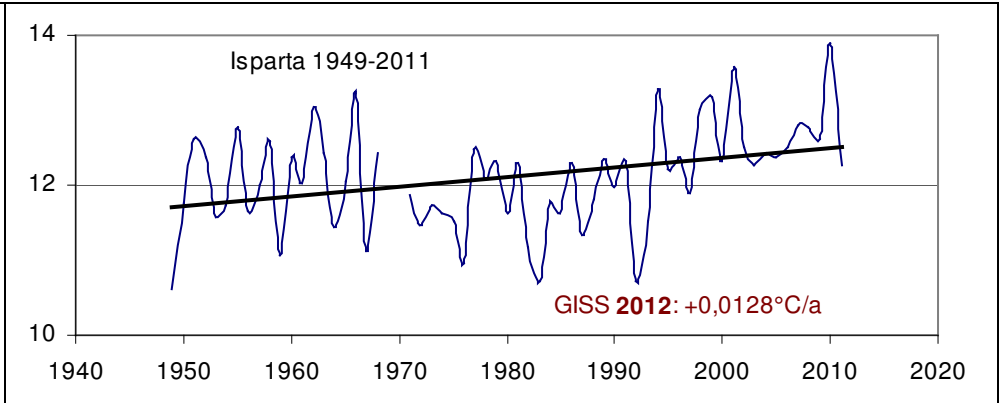
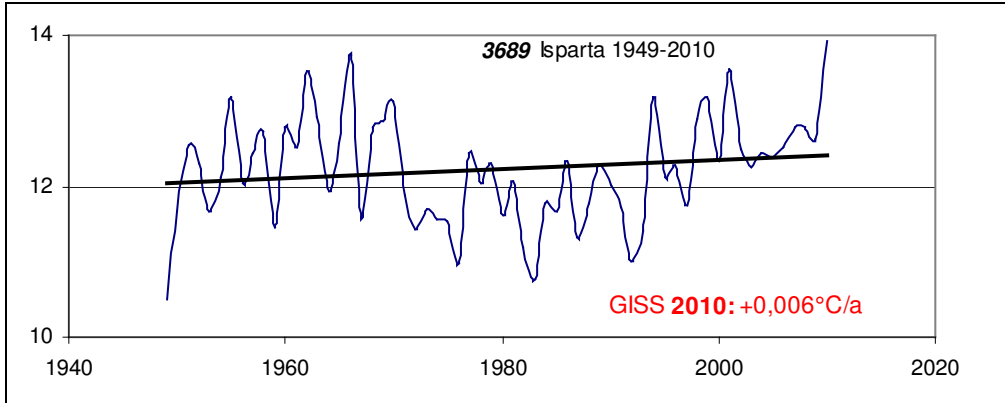


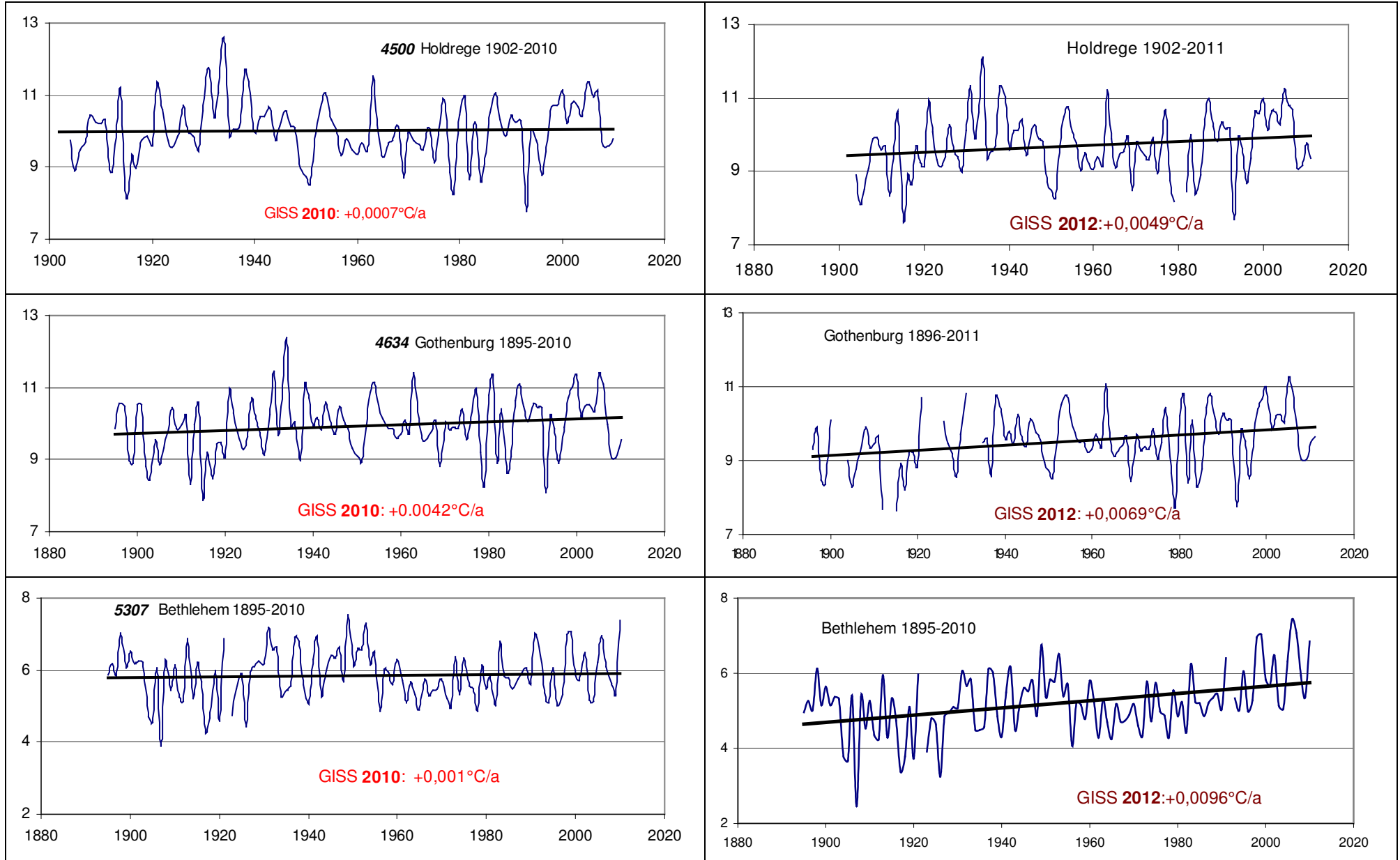


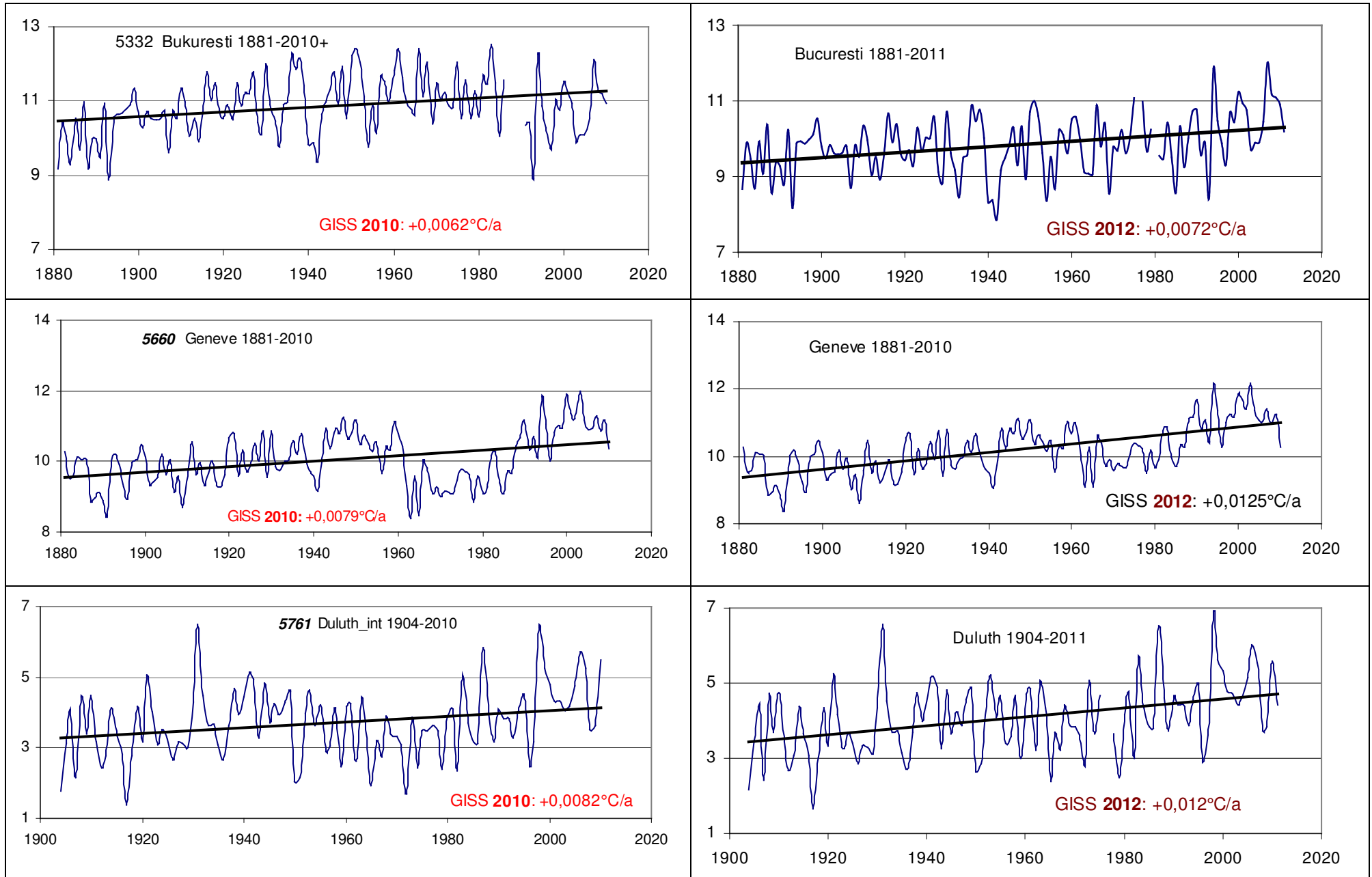


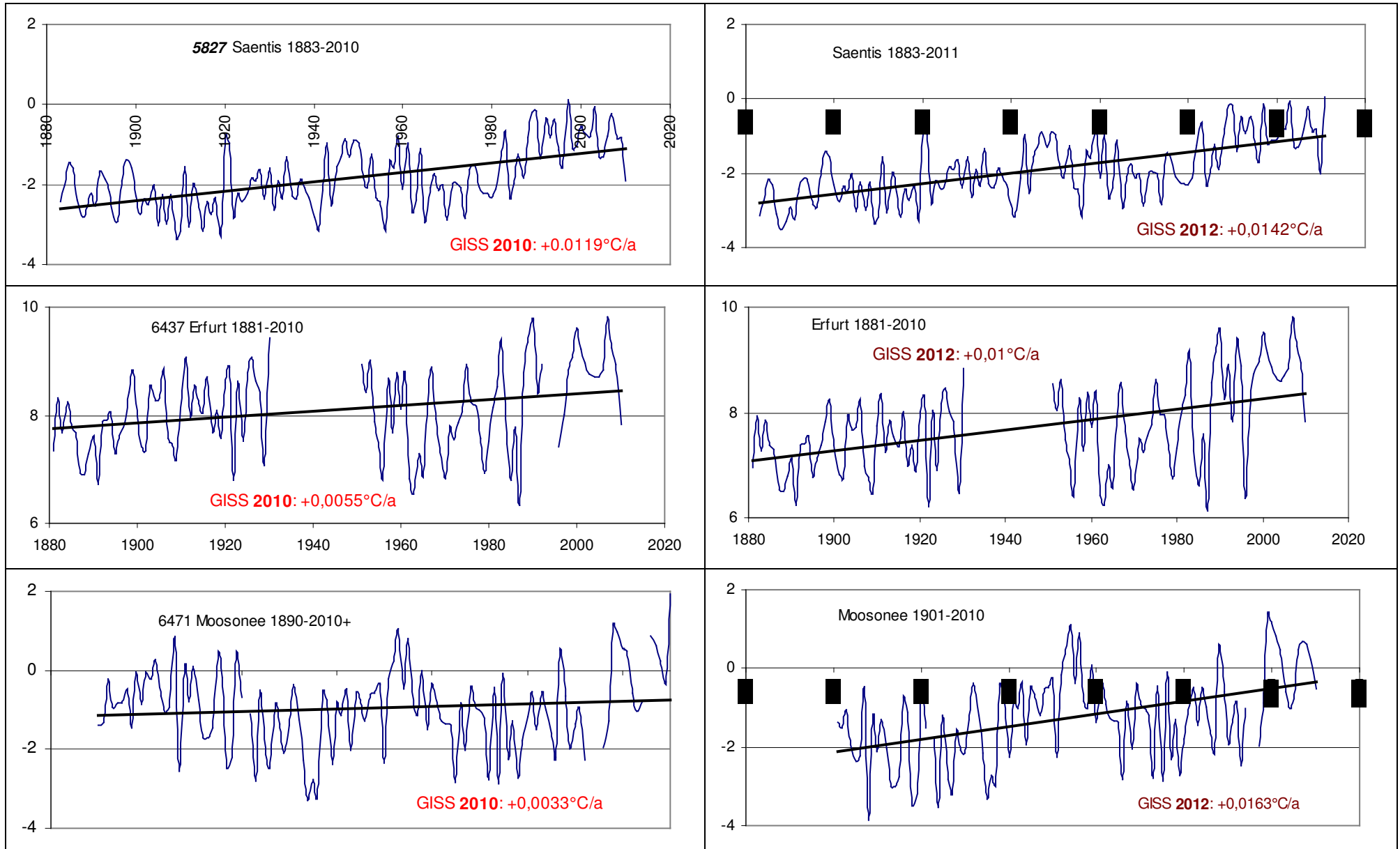


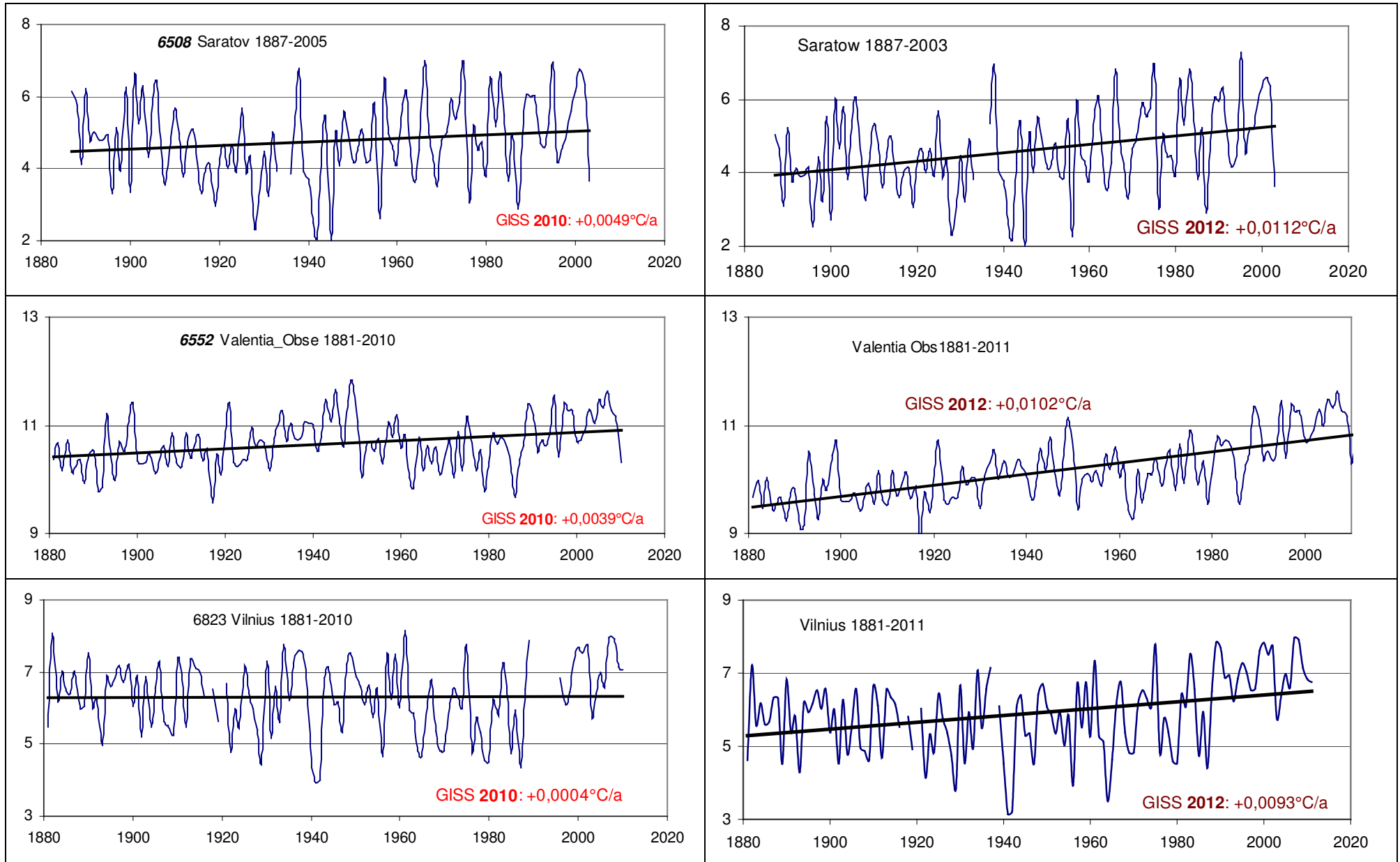


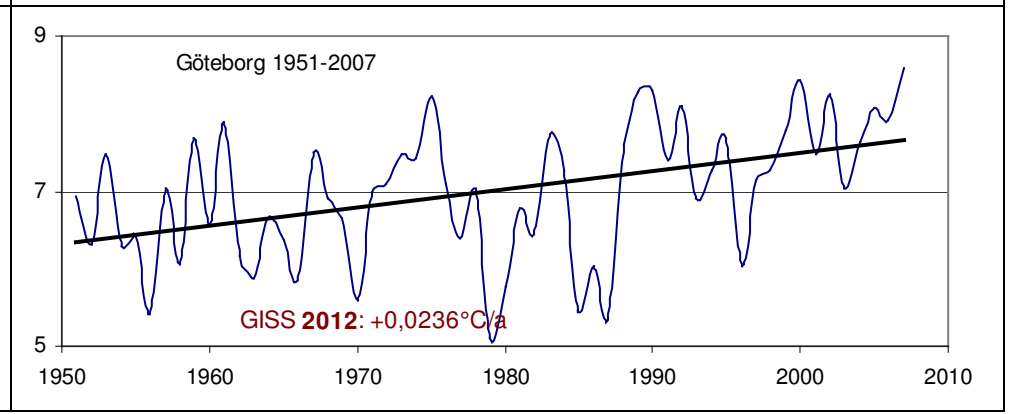
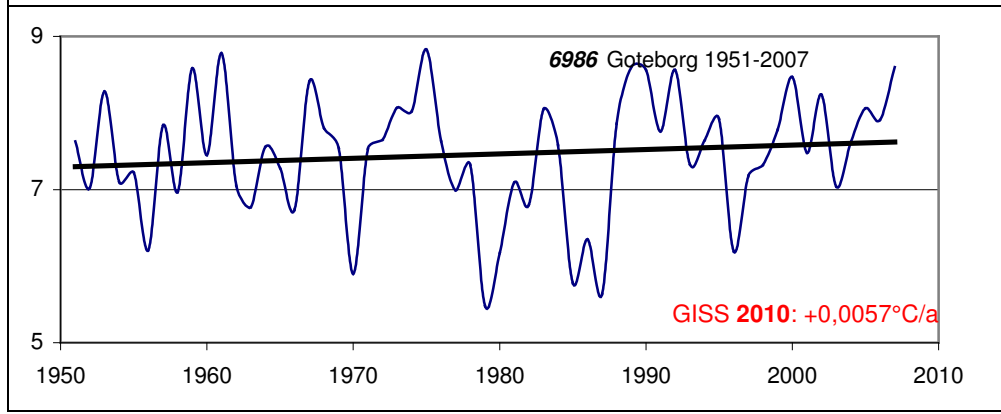
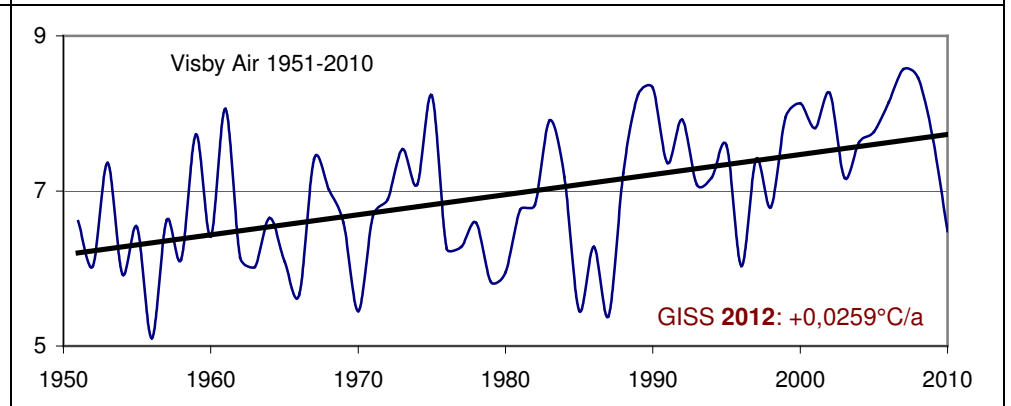
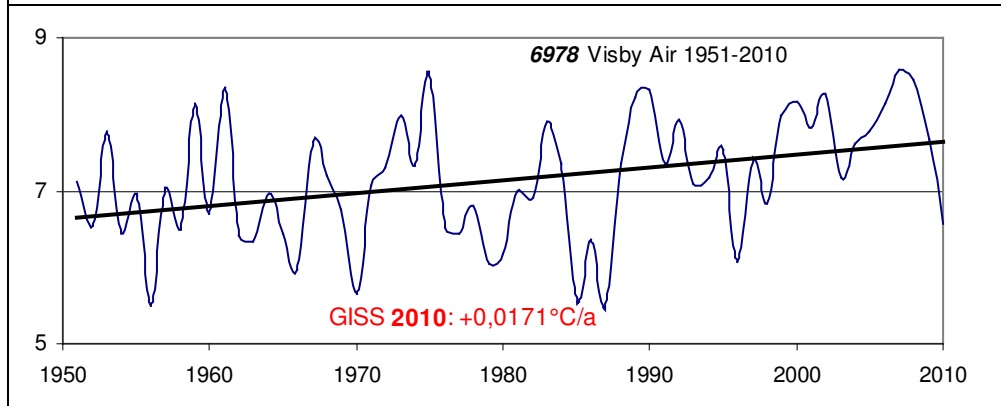
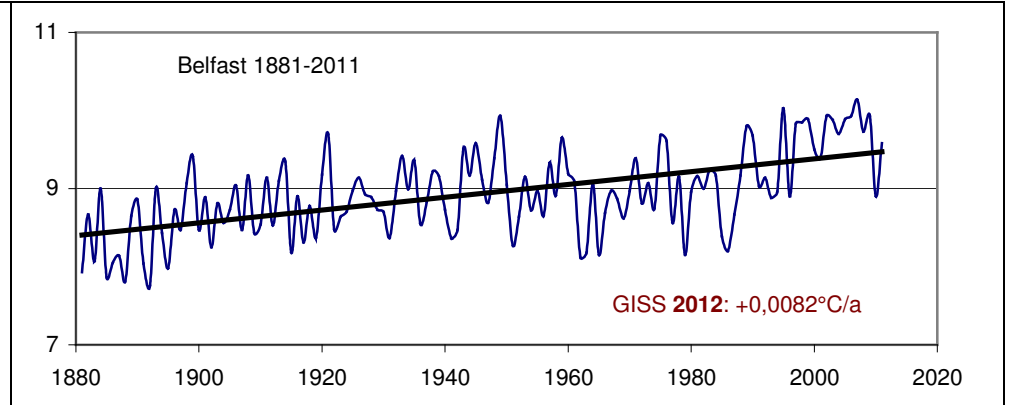
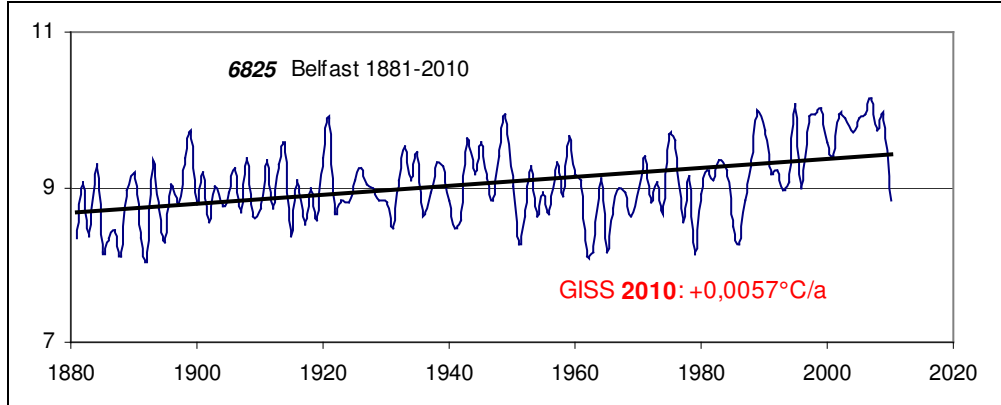


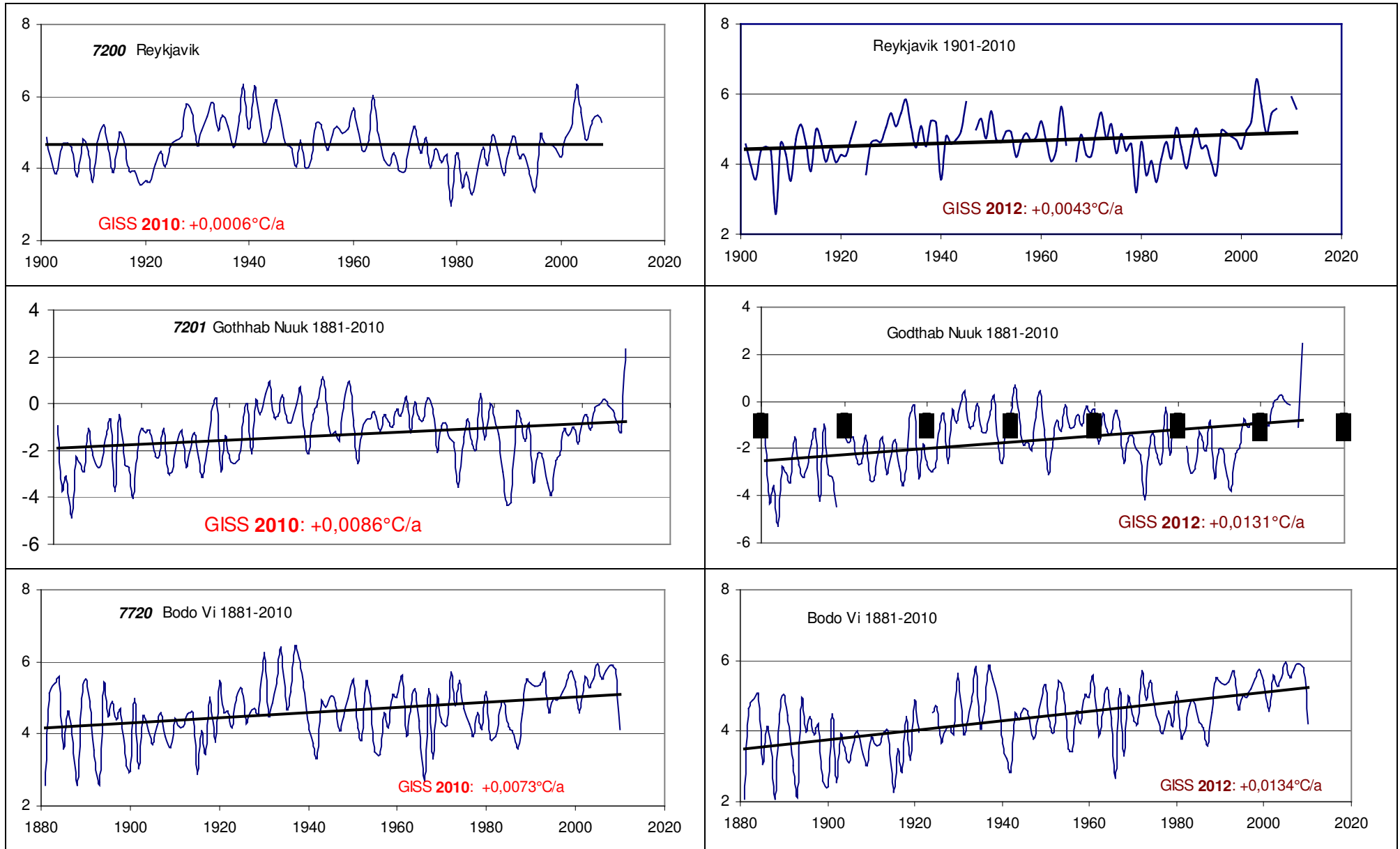




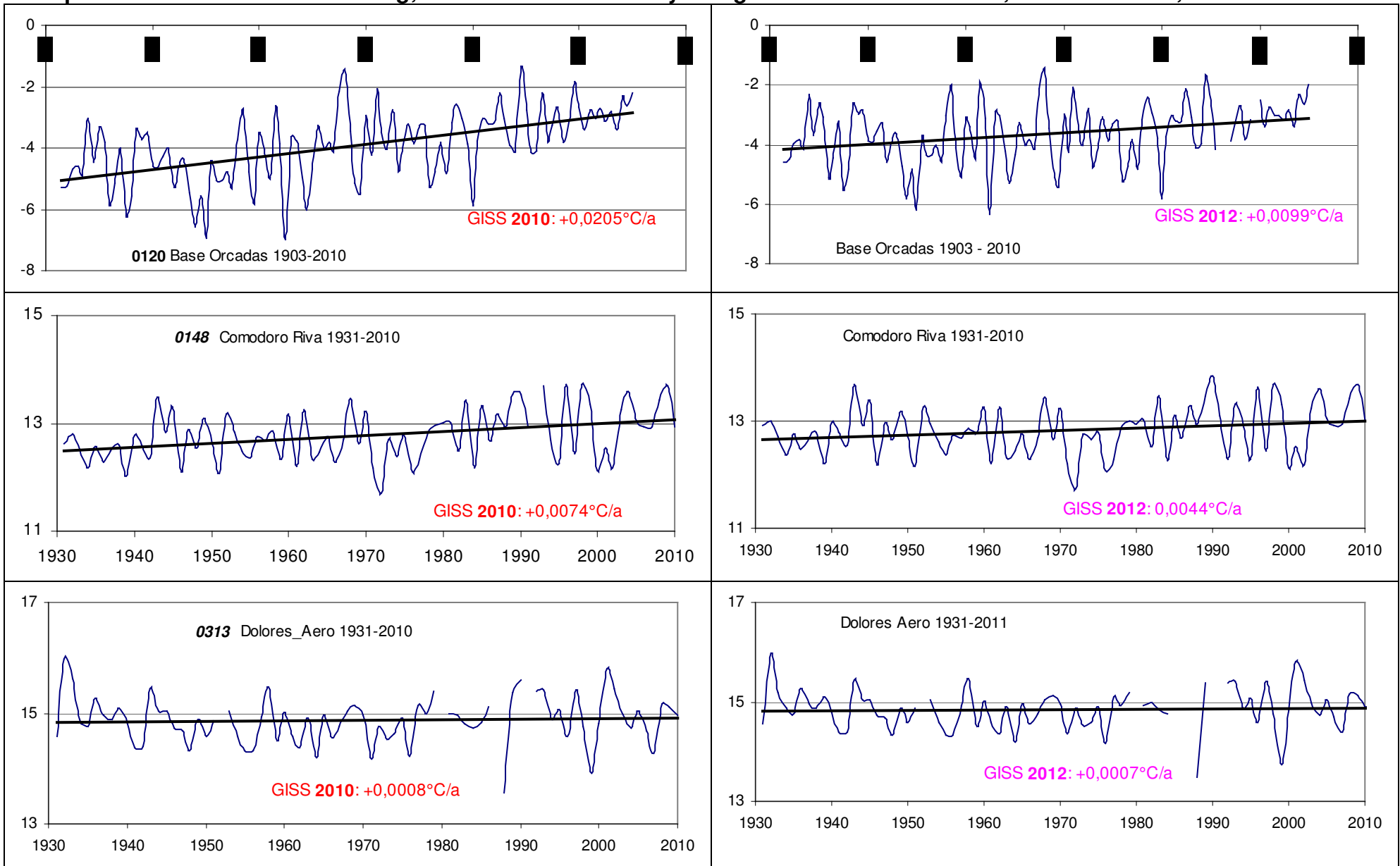


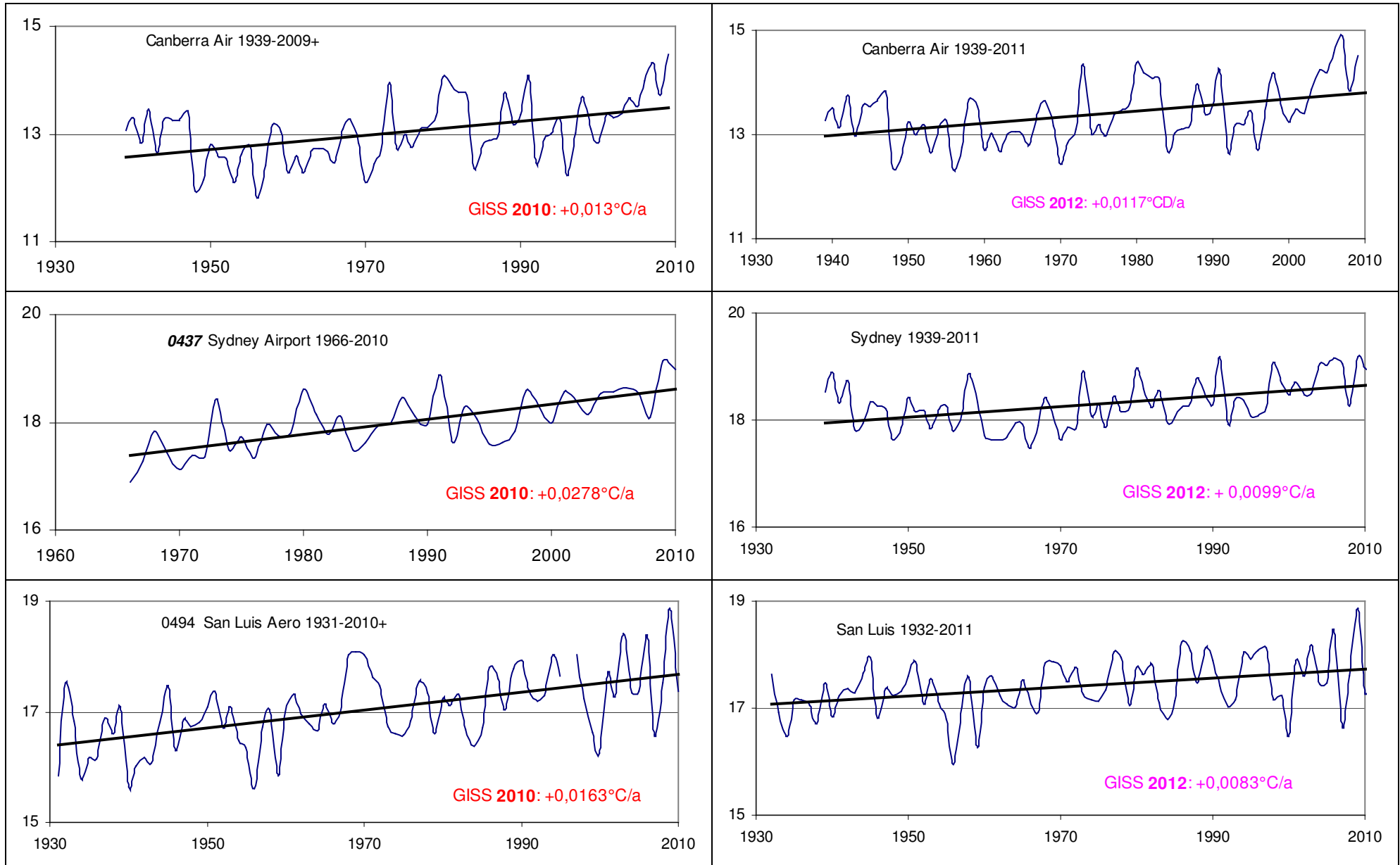


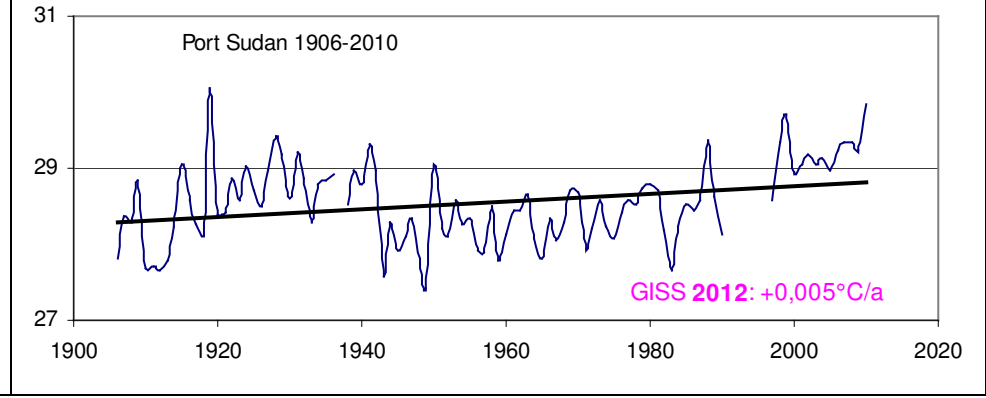
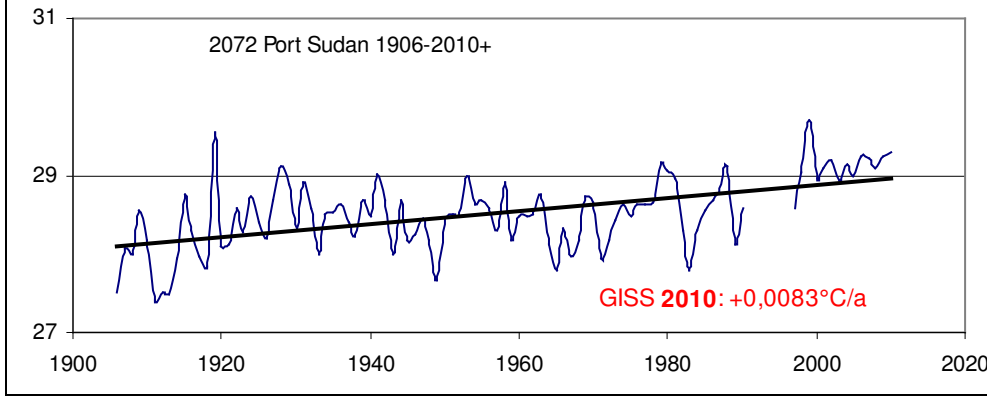
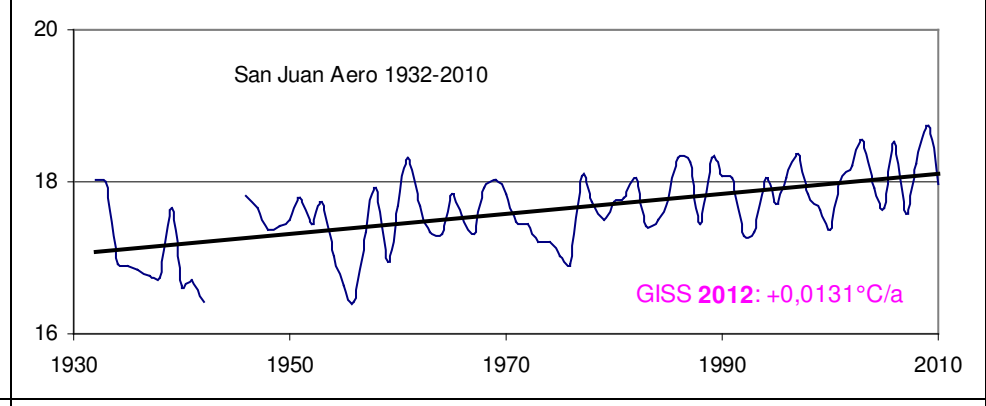
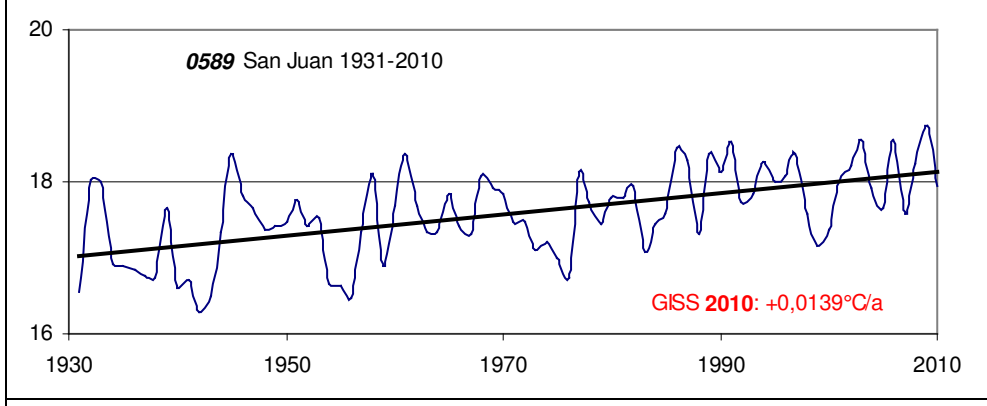
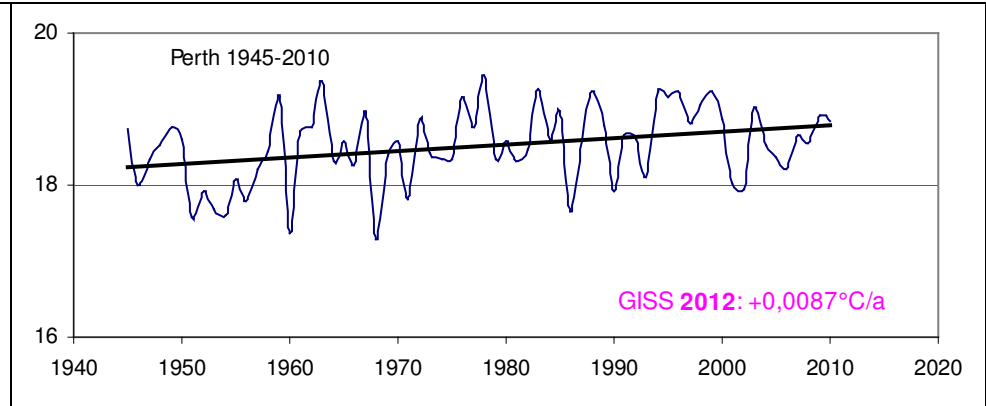
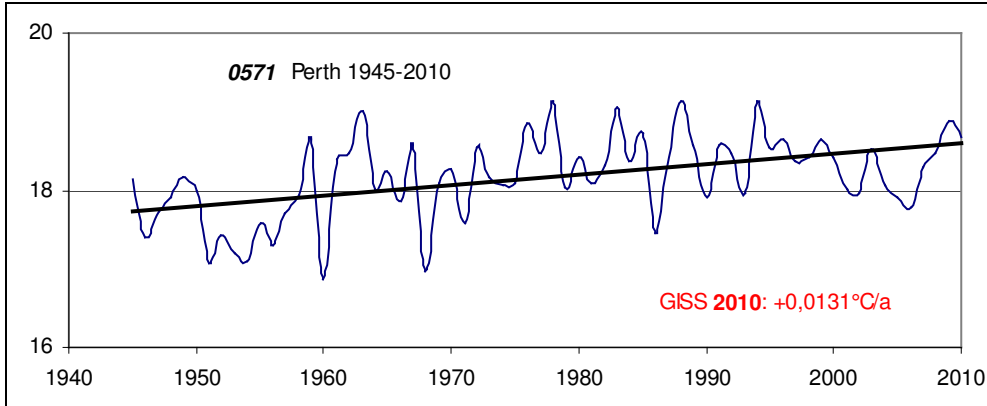


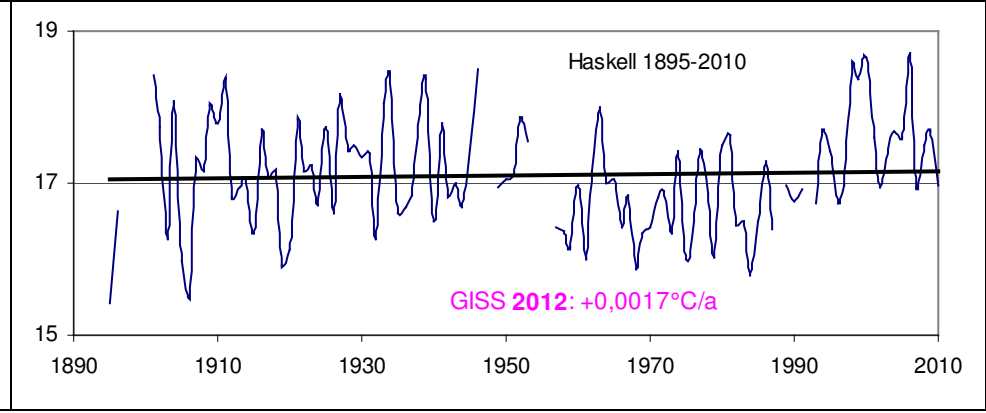
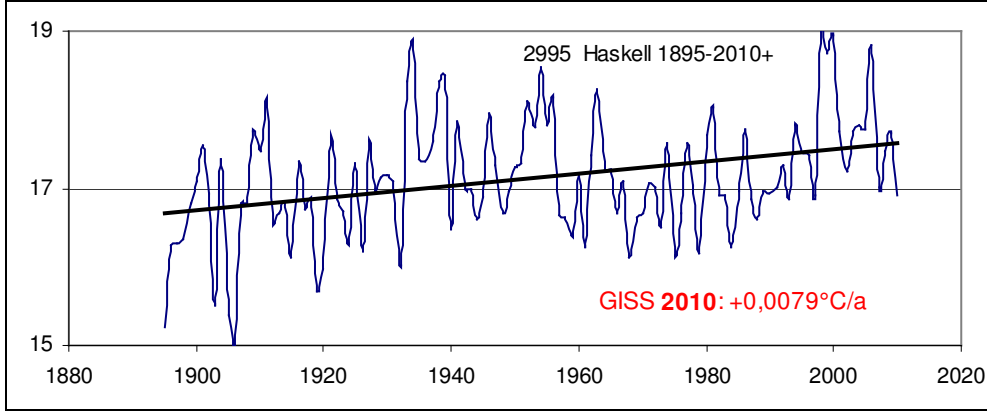
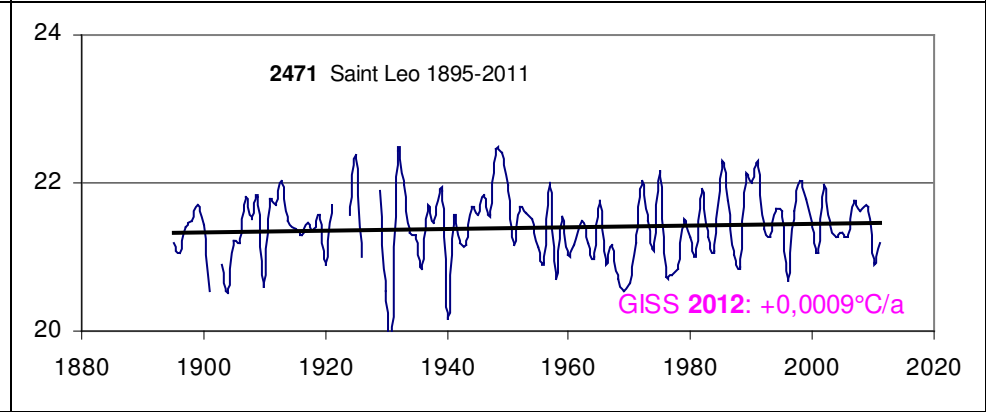
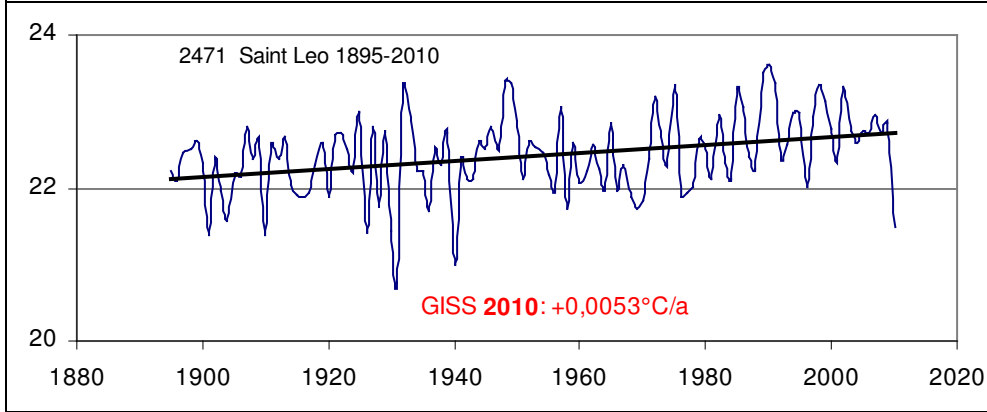
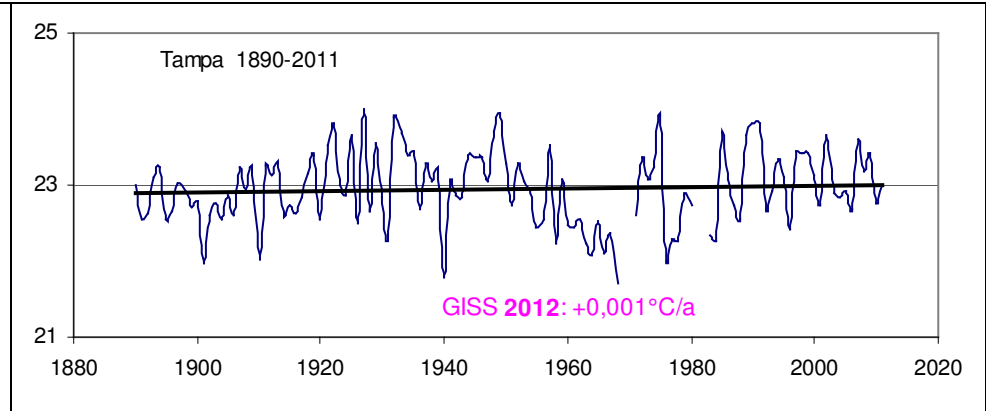
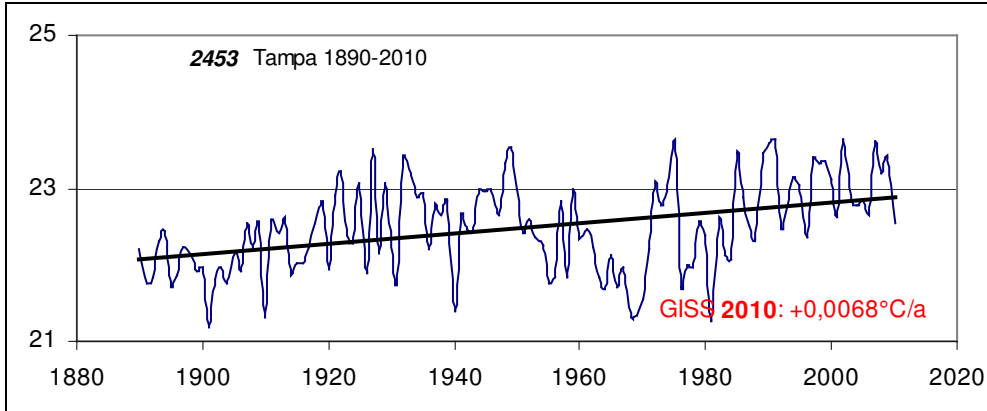


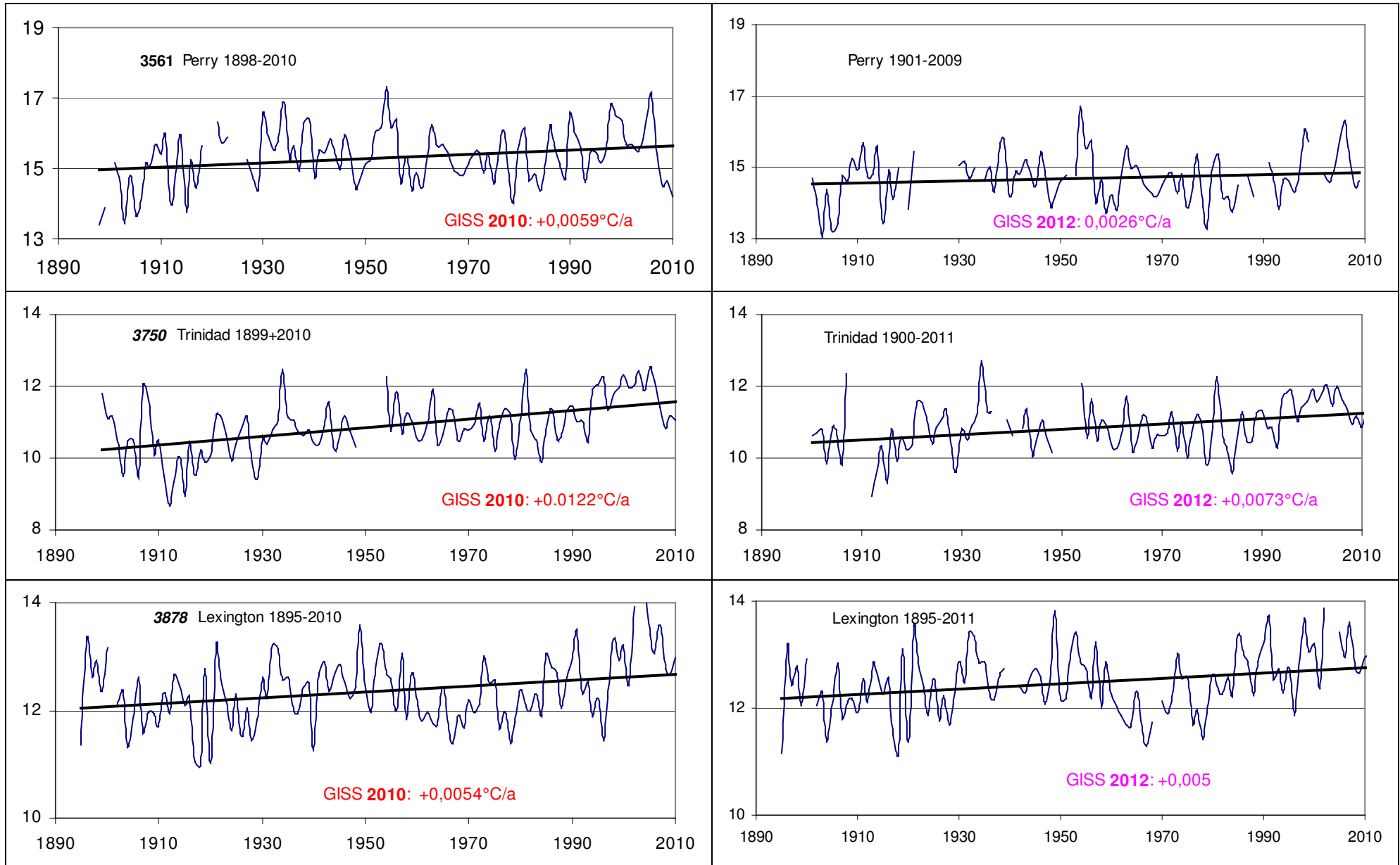
Group 5: 2010-Data indicate warming; 2012-Data: reduction by lifting values of initial section; 29 Stations: 24,2%

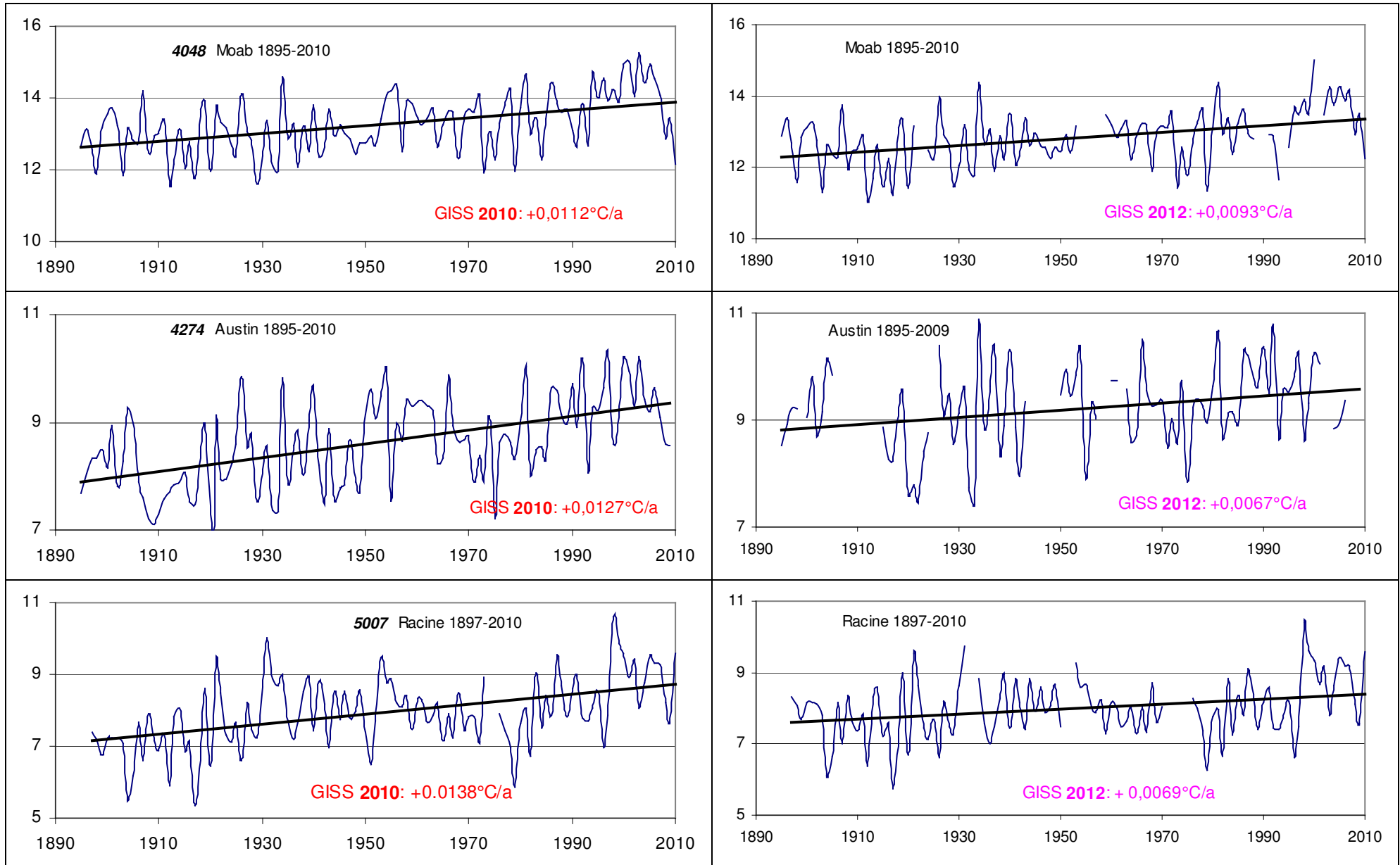


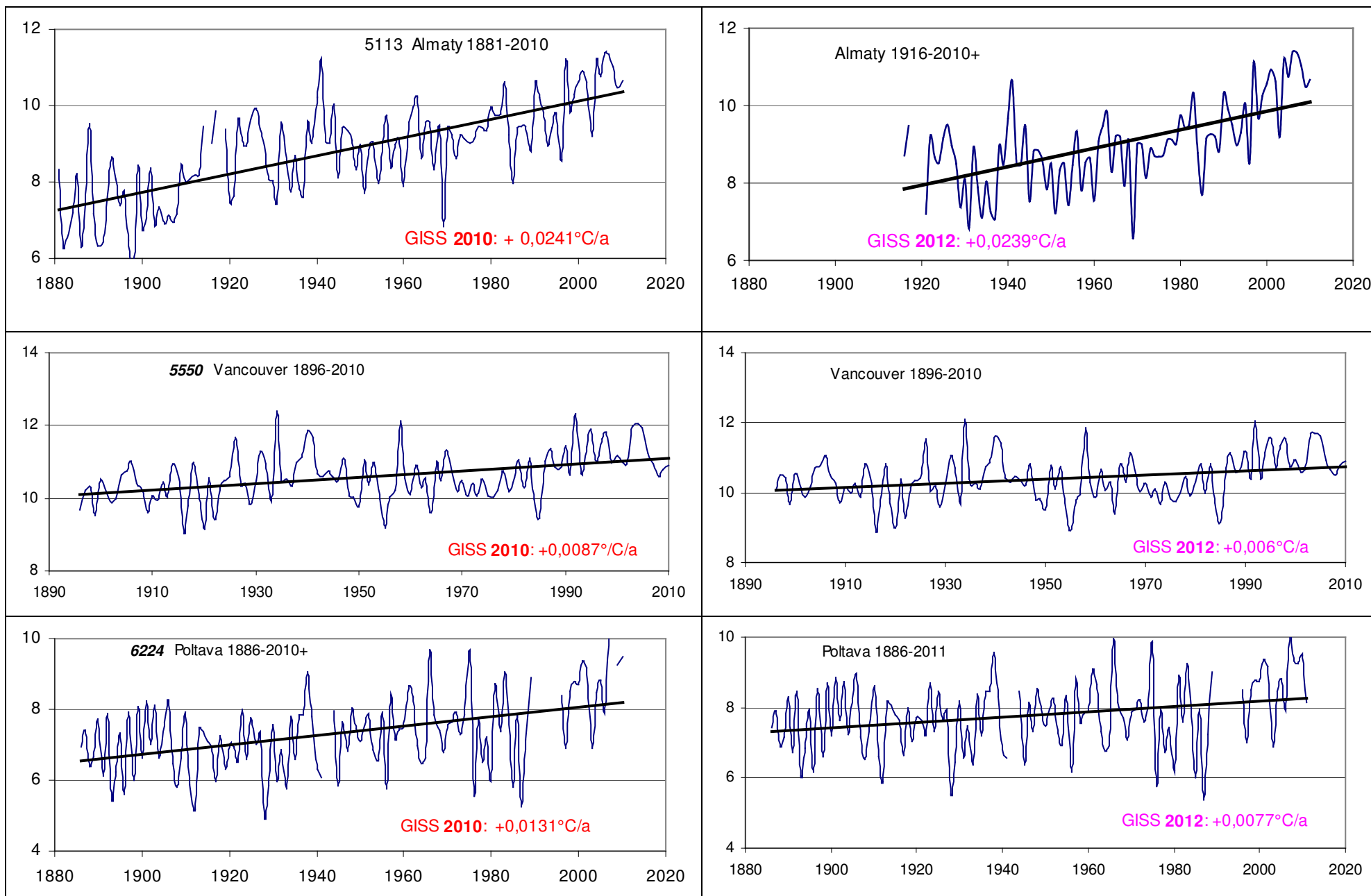


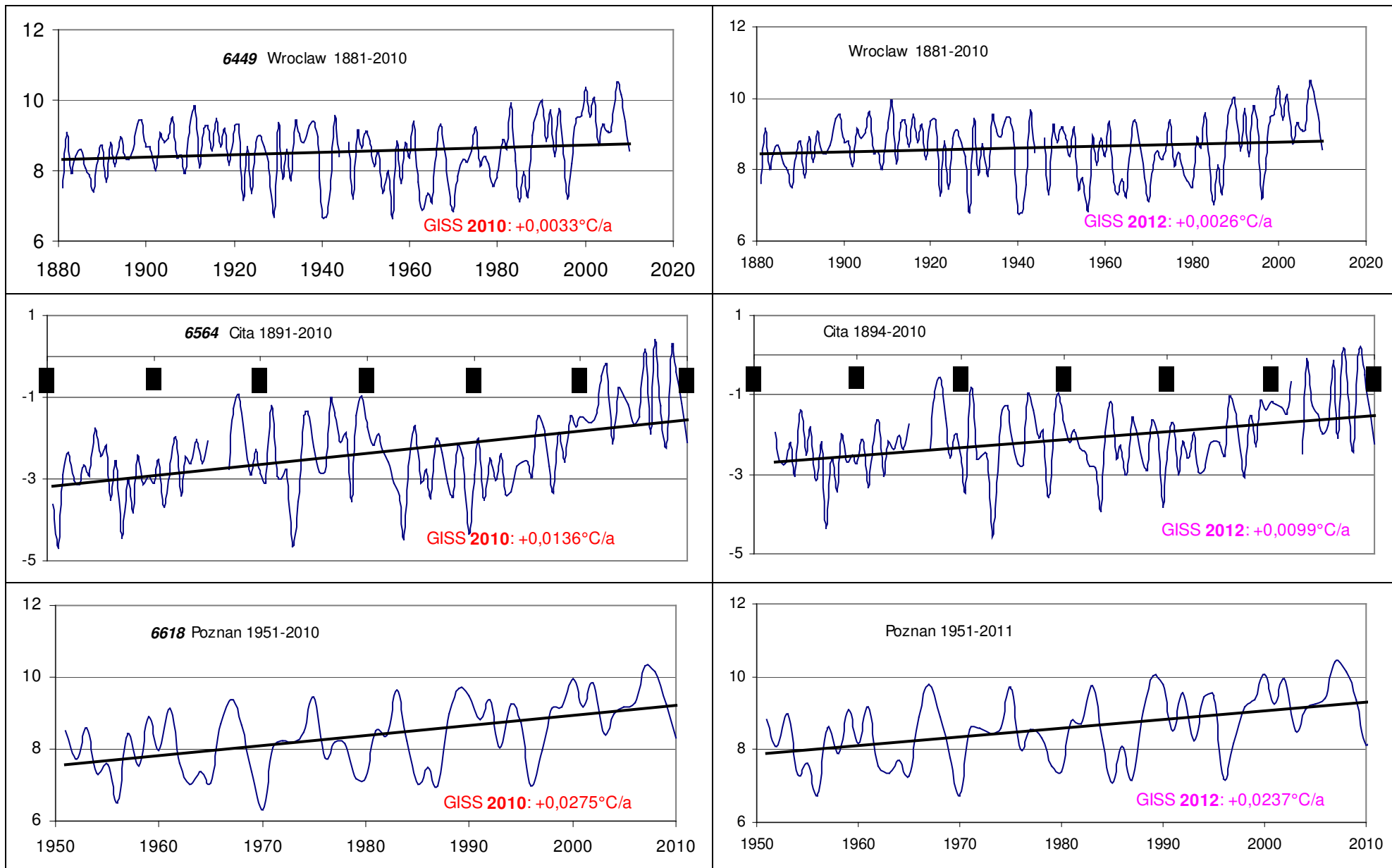


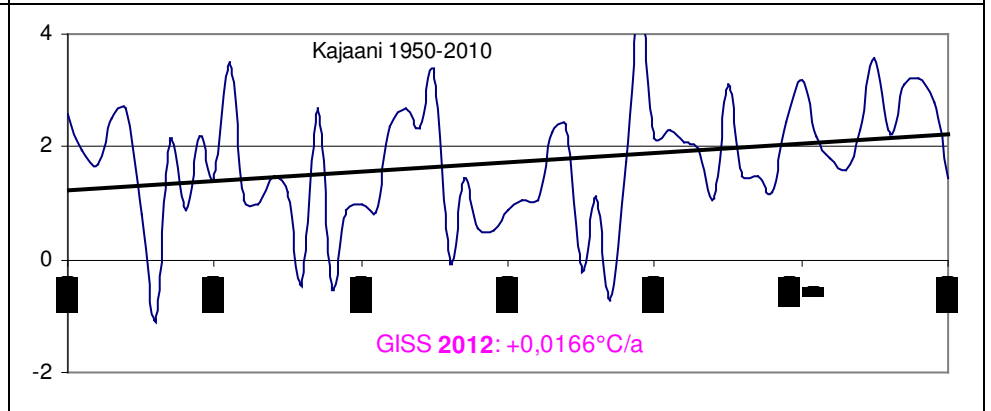
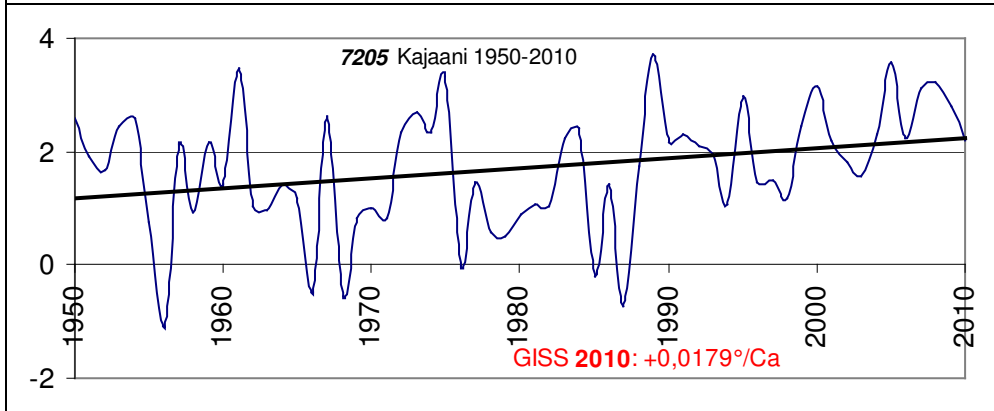
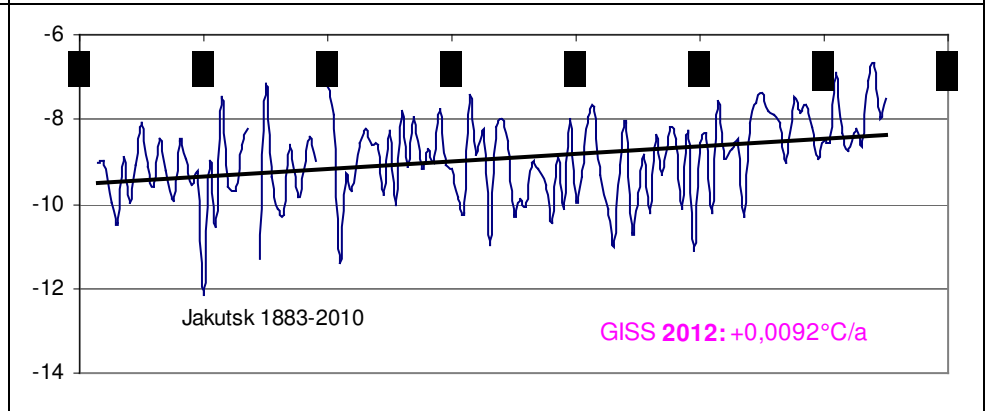
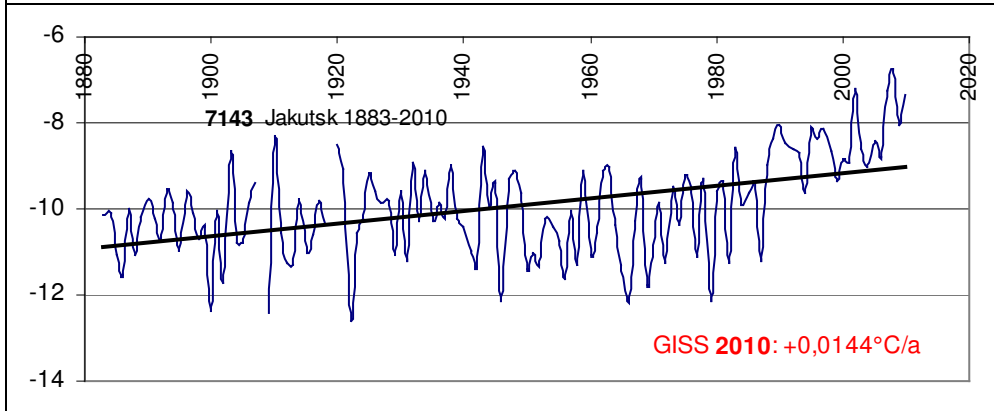
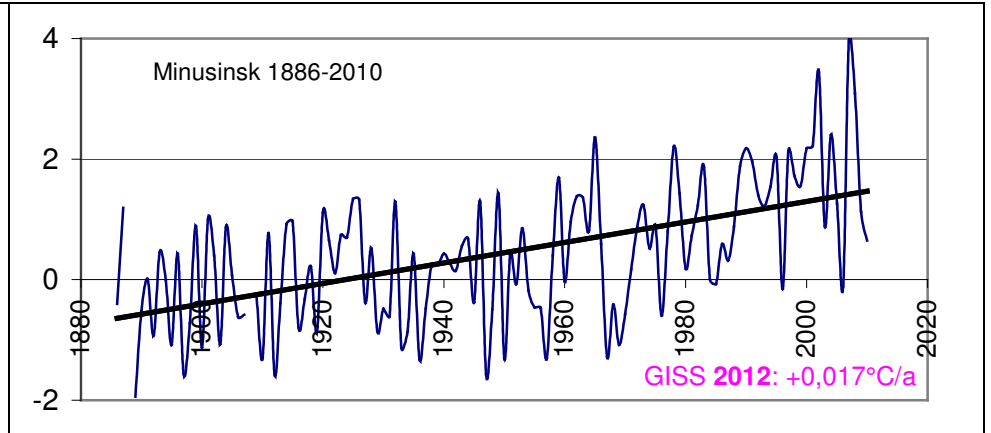
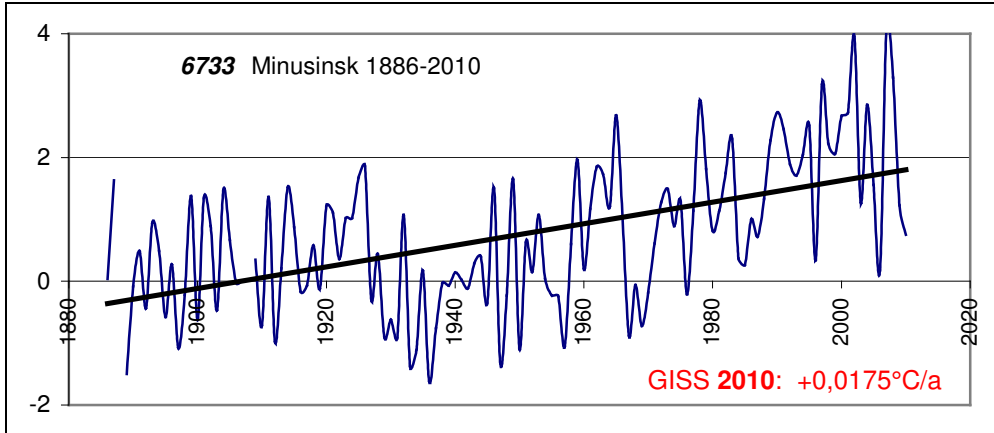


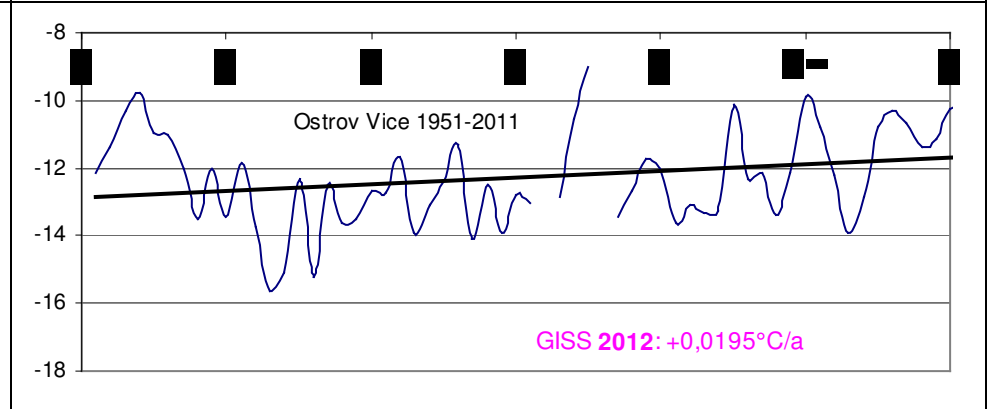
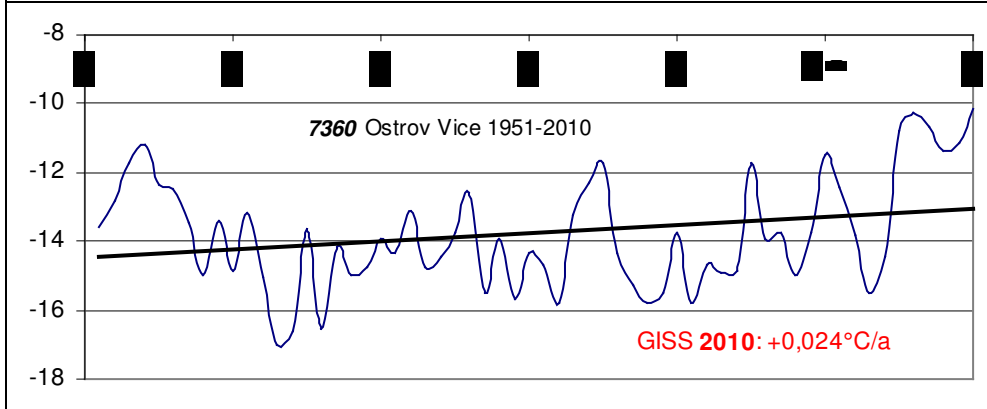
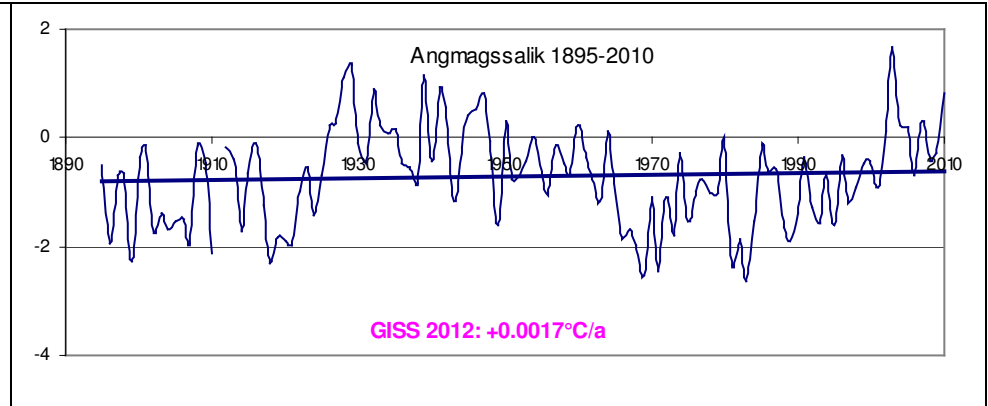
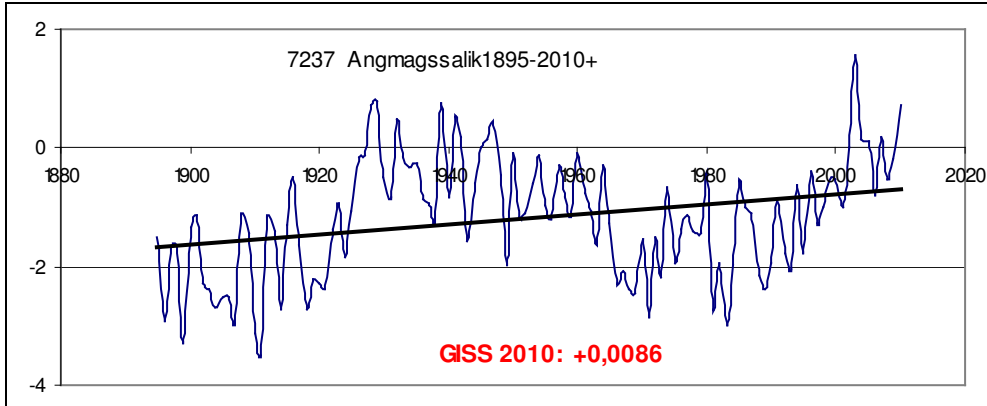




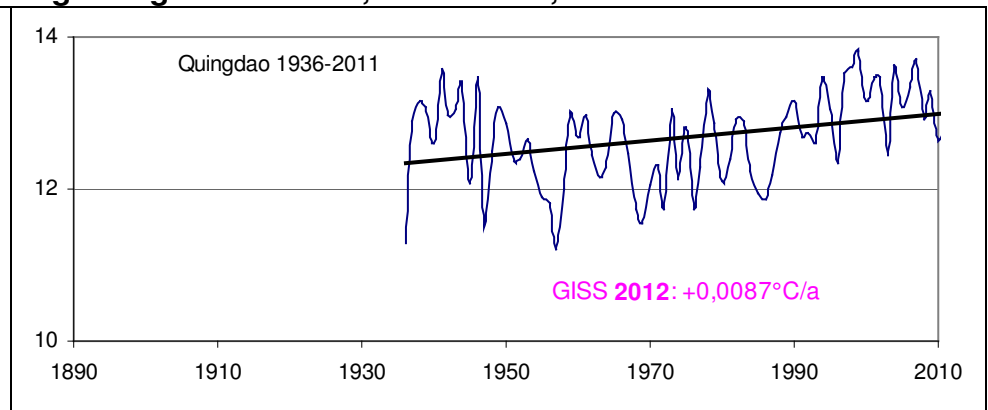
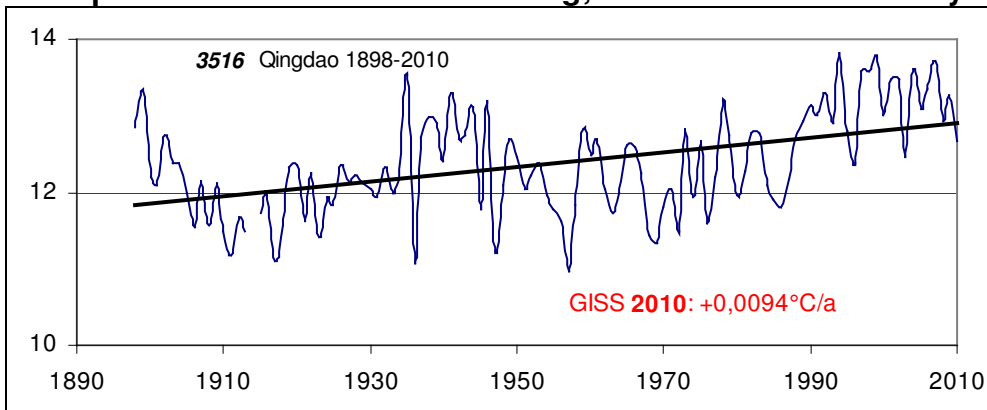




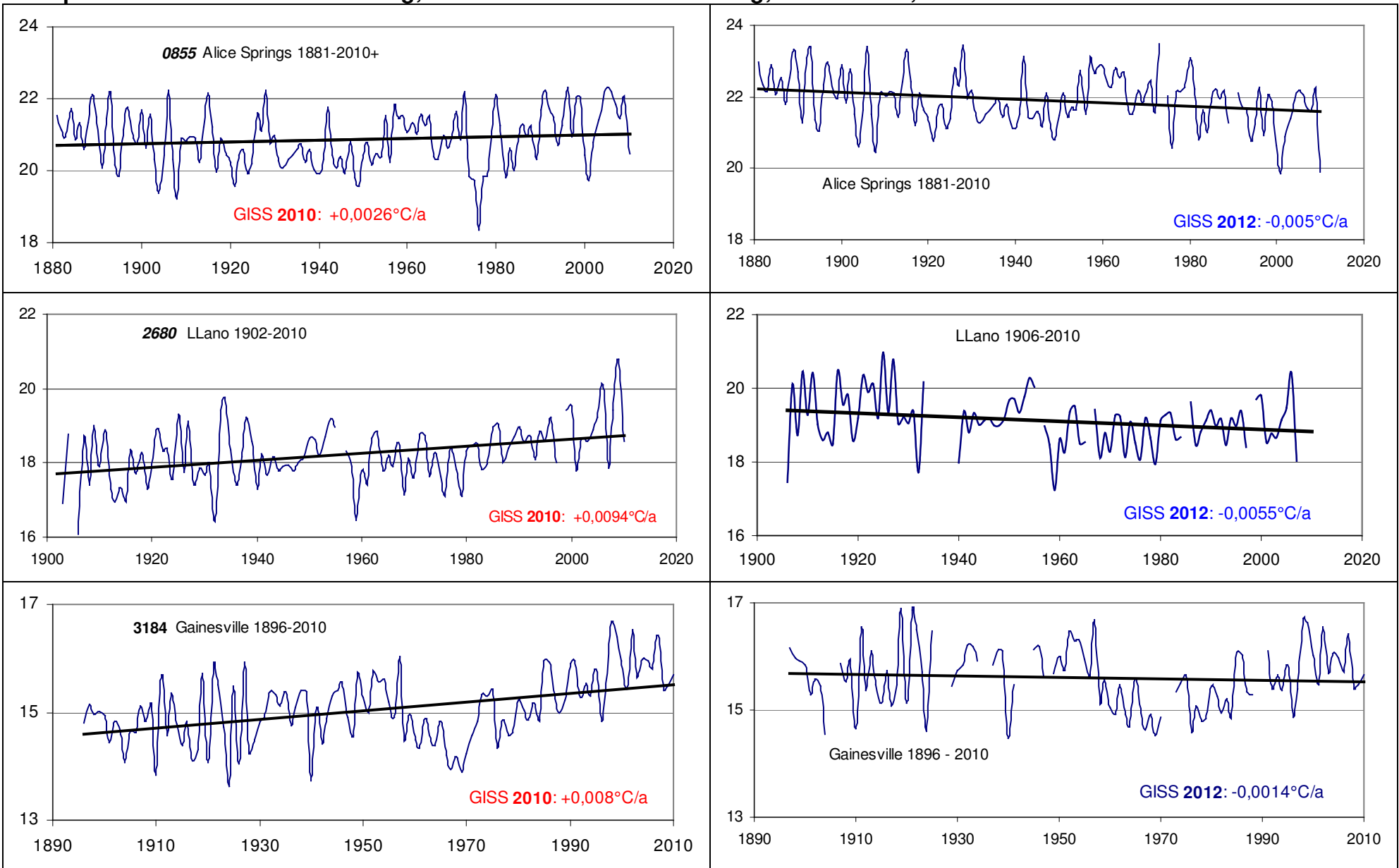


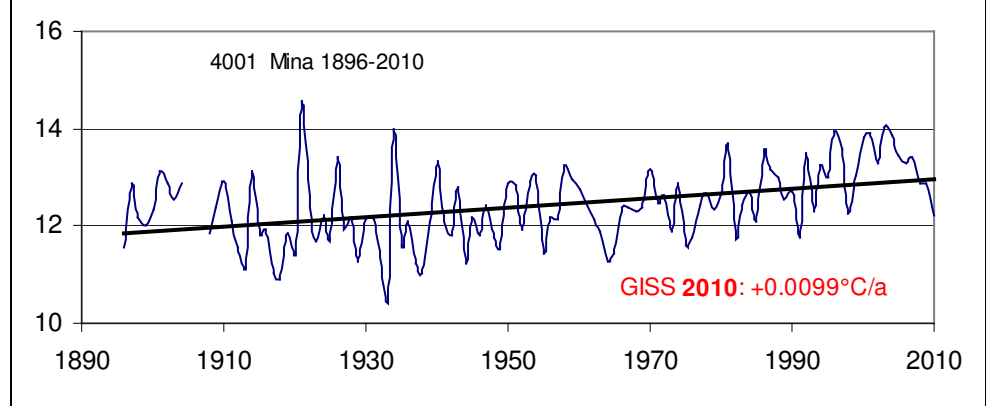
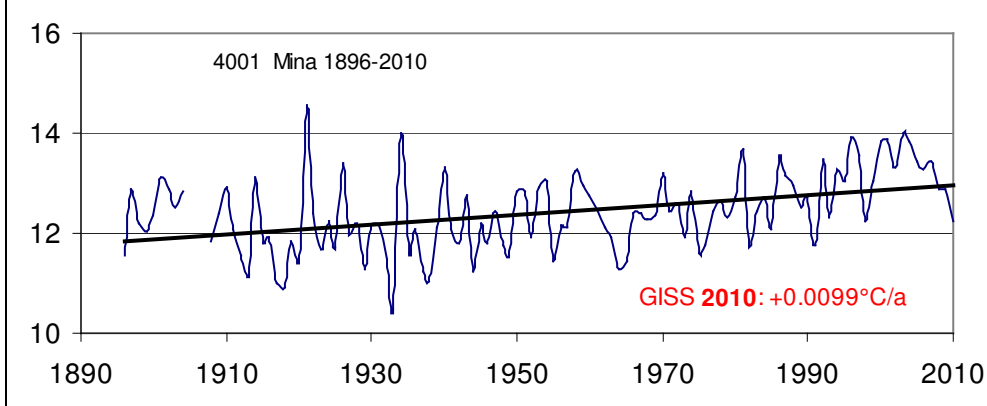
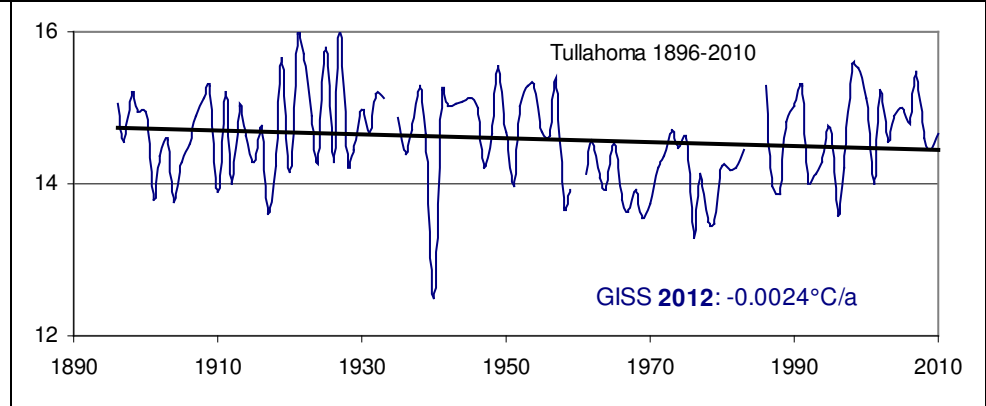
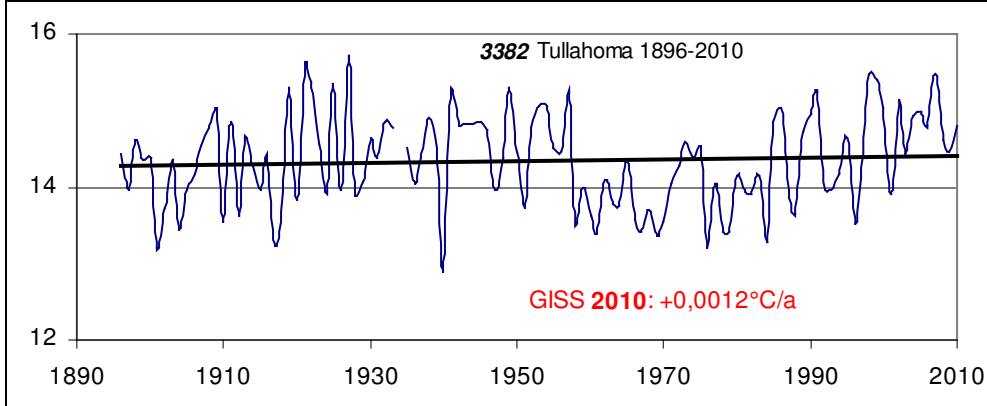
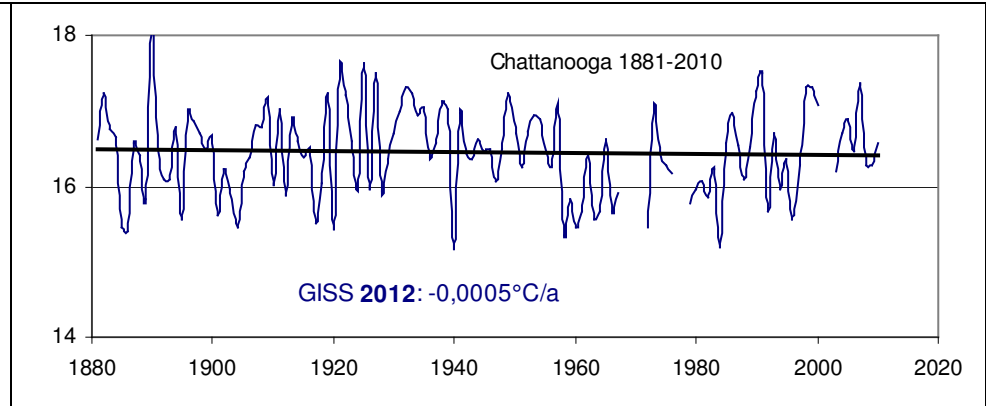
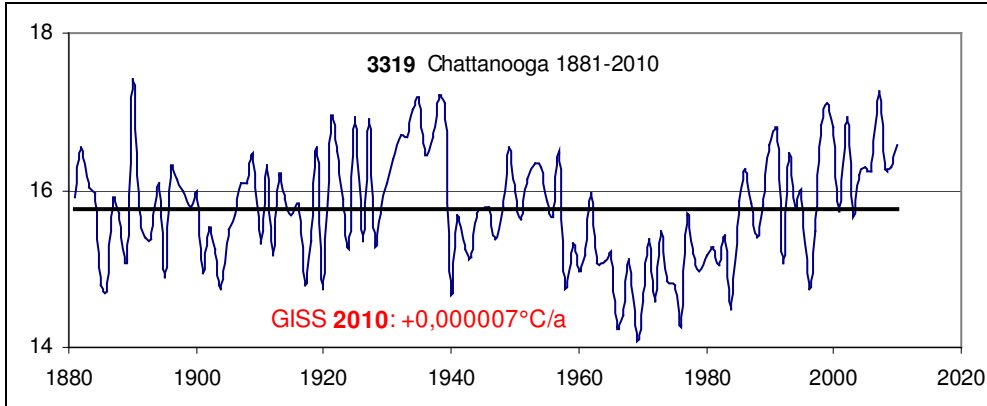


Group 6: 2010-Data indicate warming; 2012-Data: reduction by disregarding first section; 1 station: 0,83%

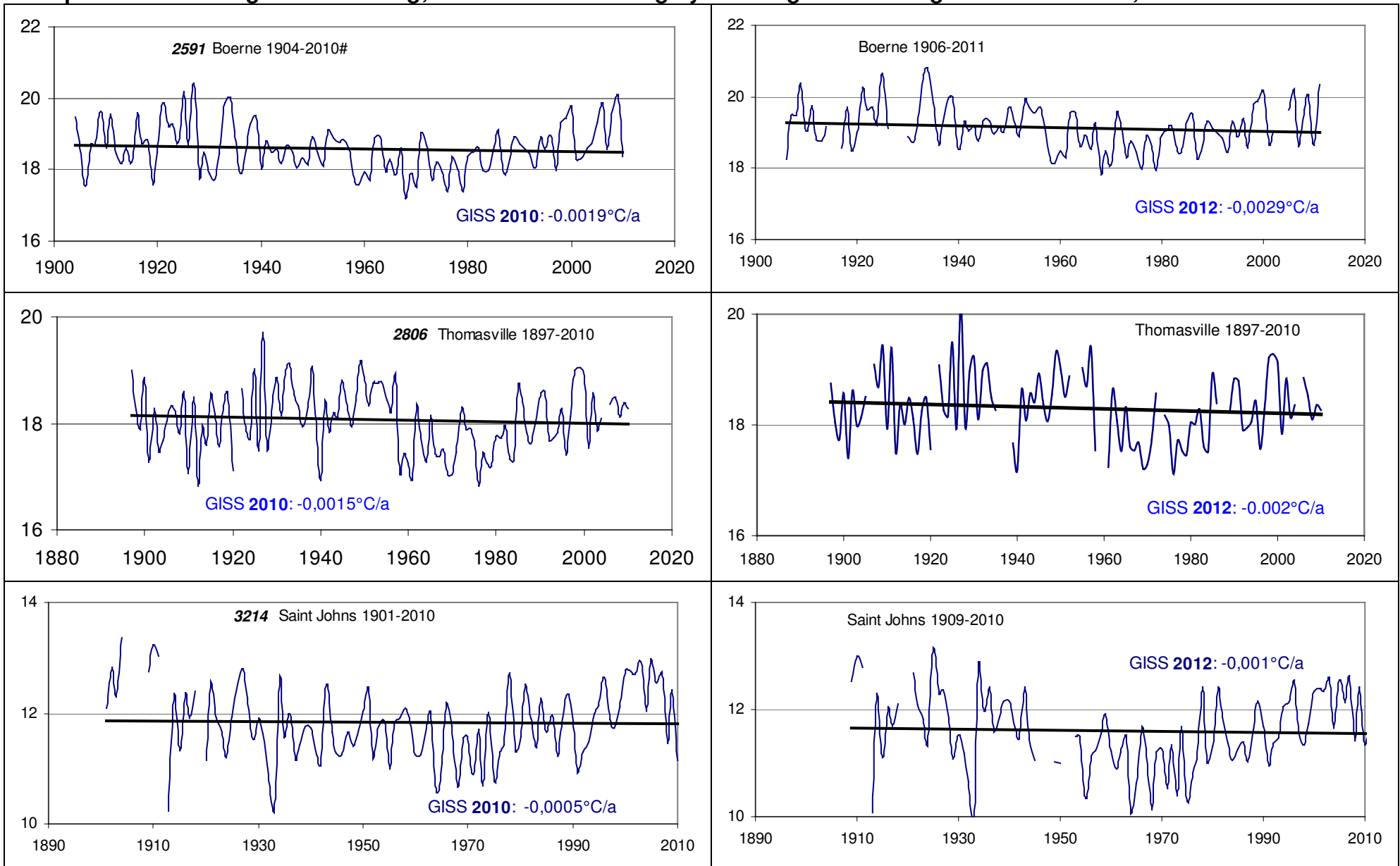


Group 7: 2010-Data indicate warming; 2012-Data: inversion to cooling; 6 stations: 5,0%

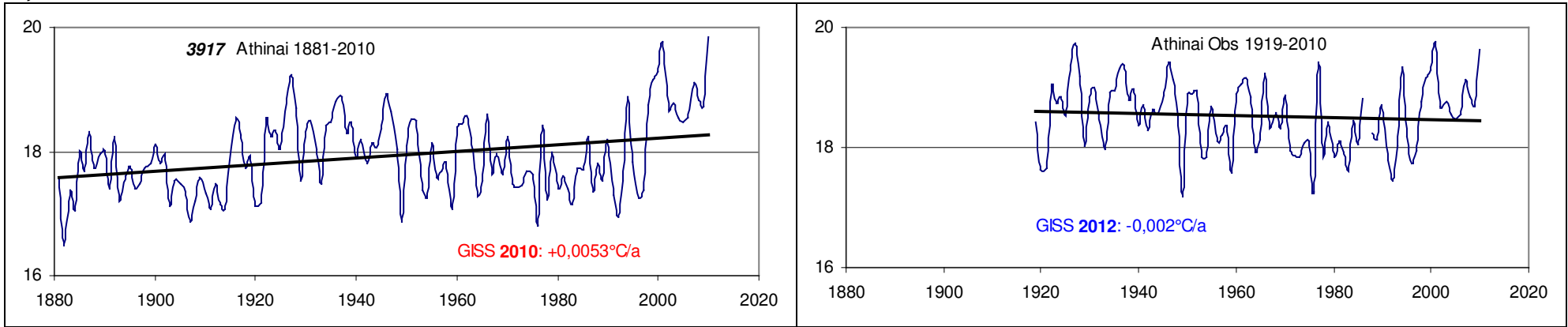




Group 8: 2010-Data registered cooling; 2012-Data: increasing by lowering and/or lifting individual values; 3 stations: 2.5%



Group 9: 2010-Data registered warming; Data-2012: inversion to cooling by deletion and lifting of central values; 1 station: 0,83%



Group10: 2010-Data registered cooling; 2012-Data: reduction by decreasing single values; 2 stations: 1,67%

