

Supplementary Table 1 Incidence and mortality data of pancreatic cancer were extracted for these years as they were available since 1991

Countries*	Incidence	Mortality	Quality of data**
	Years	Years	
Argentina	N/A	(1997-2018)	Low
Australia	(1991-2016)	(1991-2018)	High
Austria	N/A	(1992-2016)	Medium
Belarus	(1991-2012)	N/A	Medium
Belgium	N/A	(1992-2016)	Medium
Brazil	(1993-2012)	(1996-2018)	Medium
Bulgaria	(1993-2013)	(1991-2018)	Medium
Canada	(1991-2012)	(1991-2017)	High
Chile	(1998-2012)	(1997-2017)	Medium
China***	(1991-2012)	(1991-2016)	
Colombia	(1991-2012)	(1997-2017)	Medium
Costa Rica	(1991-2011)	(1997-2017)	Medium
Croatia	(1991-2012)	(1991-2017)	Medium
Cuba	N/A	(2000-2017)	High
Czechia	(1991-2013)	(1991-2018)	Medium
Denmark	(1991-2016)	(1991-2018)	Medium
Dominican Republic	N/A	(1996-2013)	
Ecuador	(1991-2012)	(1997-2017)	Low
El Salvador	N/A	(1997-2014)	Medium

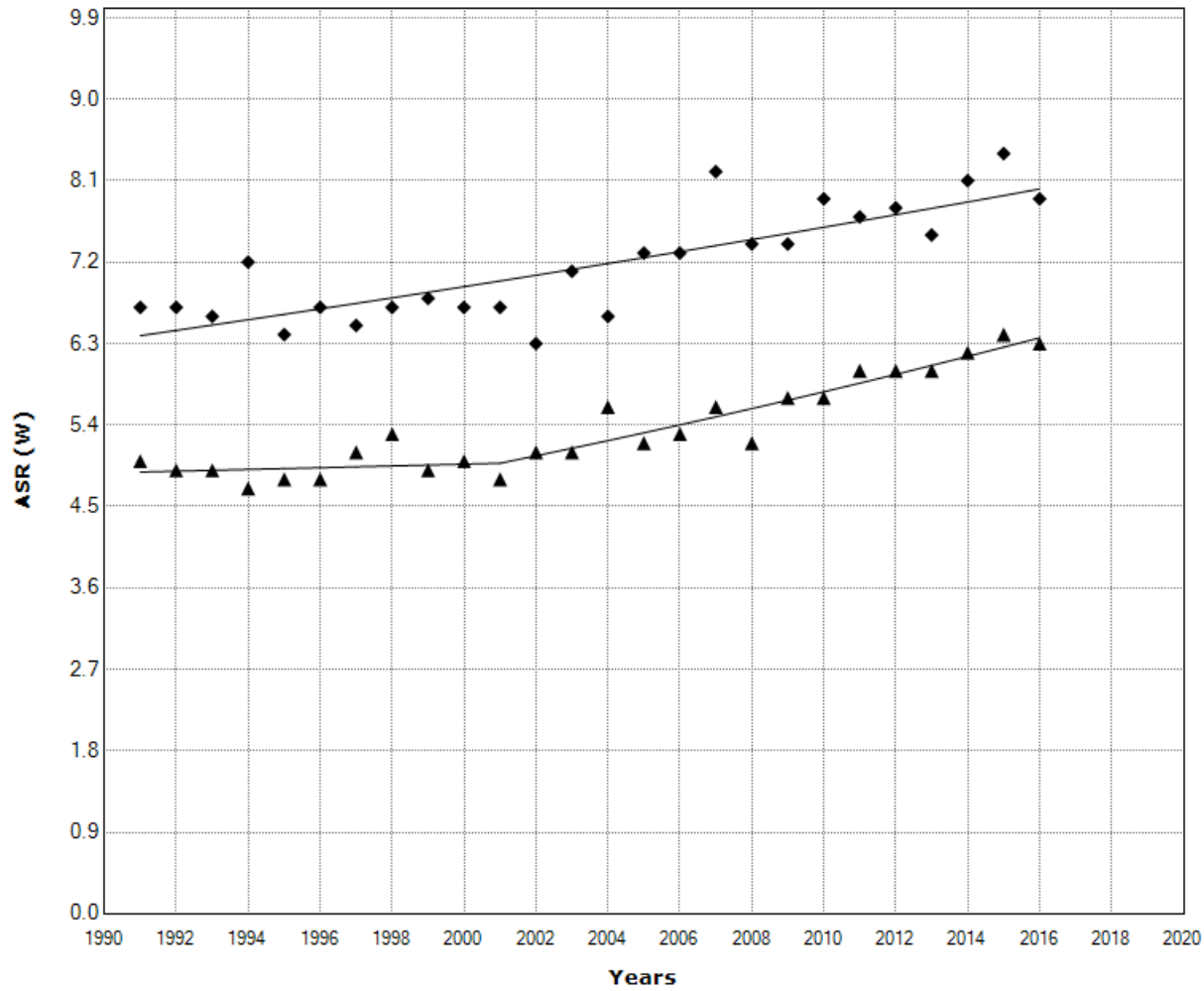
Estonia	(1991-2012)	(1994-2018)	High
Finland	(1991-2016)	(1991-2018)	High
France	(1991-2012)	(1991-2016)	Medium
Germany	(1998-2012)	(1991-2018)	Medium
Greece	N/A	(1991-2017)	Low
Guatemala	N/A	(2000-2016)	Medium
Hungary	N/A	(1991-2018)	High
Iceland	(1991-2016)	(1991-2018)	High
India***	(1991-2012)	N/A	
Ireland	(1994-2012)	(1991-2015)	High
Israel	(1991-2012)	(1991-2018)	Medium
Italy	(1991-2012)	(1991-2017)	Medium
Japan	(1991-2010)	(1991-2018)	High
Kuwait	(1998-2012)	(1993-2014)	Medium
Kyrgyzstan	N/A	(2000-2016)	Medium
Latvia	(1991-2012)	(1996-2017)	High
Lithuania	(1991-2012)	(1993-2018)	High
Luxembourg	N/A	(1991-2016)	Medium
Malta	(1992-2013)	(1991-2017)	High
Mauritius	N/A	(1991-2017)	Medium
Mexico	N/A	(1998-2017)	High
Netherlands	(1991-2013)	(1991-2018)	Medium
New Zealand	(1991-2012)	(1991-2016)	High

Nicaragua	N/A	(1997-2017)	Low
North Macedonia	N/A	(1991-2013)	Medium
Norway	(1991-2016)	(1991-2016)	Medium
Panama	N/A	(1998-2017)	Medium
Paraguay	N/A	(1996-2016)	Low
Peru	N/A	(1999-2015)	Low
Poland	(1998-2012)	(1991-2018)	Low
Portugal	N/A	(1991-2018)	Low
Republic of Korea	N/A	(1991-2018)	Medium
Republic of Moldova	N/A	(1991-2017)	High
Romania	N/A	(1991-2018)	High
Russian Federation	N/A	(1999-2014)	Medium
Serbia	N/A	(1998-2016)	Medium
Singapore	N/A	(1991-2017)	High
Slovakia	(1991-2010)	(1992-2014)	High
Slovenia	(1991-2012)	(1991-2018)	High
South Africa	N/A	(1993-2015)	Low
Spain	(1993-2010)	(1991-2017)	Medium
Sweden	(1991-2016)	(1991-2018)	Medium
Switzerland	(1998-2012)	(1991-2017)	Medium
Thailand	(1993-2012)	(2002-2016)	Low
Turkey	(1998-2012)	N/A	
Turkmenistan	N/A	(2000-2015)	Medium

Uganda	(1991-2015)	N/A	
Ukraine	(1993-2005)	N/A	Medium
United Kingdom	(1991-2017)	(1991-2016)	High
USA	(1991-2016)	(1991-2017)	High
Uruguay	N/A	(1997-2017)	Medium
Venezuela	N/A	(1996-2013)	High

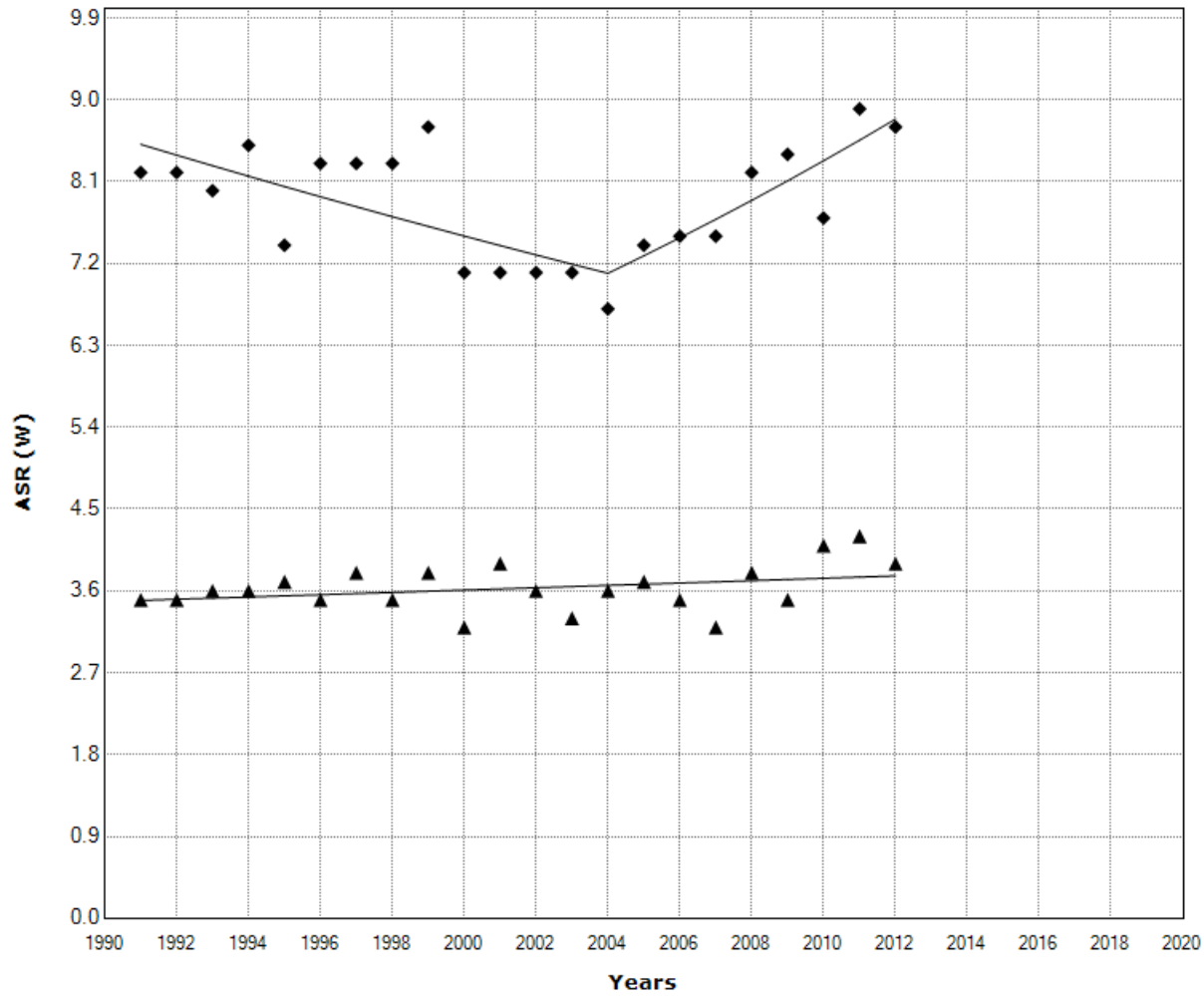
* List of countries with/without data for pancreatic cancer incidence/mortality available in the observed period (from 1991 or later) continuously, or provided that there has been data for at least 15 years in a row continuously only. Source: GLOBOCAN 2020 estimates^[2]. ** Quality of data was classified using criteria described by WHO^[14]. High quality (ICD-9 or ICD-10 coding is used and completeness is > 90% and ill-defined codes appear on < 10% of registrations); Medium quality (Completeness is 70-90% OR ill-defined codes appear on 10-20% of registrations OR non-ICD codes used although completeness is > 90% and ill-defined codes appear on < 10% of registrations); Low quality (Completeness < 70% OR ill-defined codes appear on > 20% of registrations)^[14]. *** These countries have sample vital registration systems (although coverage is low, the sample provides population-representative information)^[14]. N/A, not available.

Australia: Males: 0 Joinpoints versus Females: 1 Joinpoint



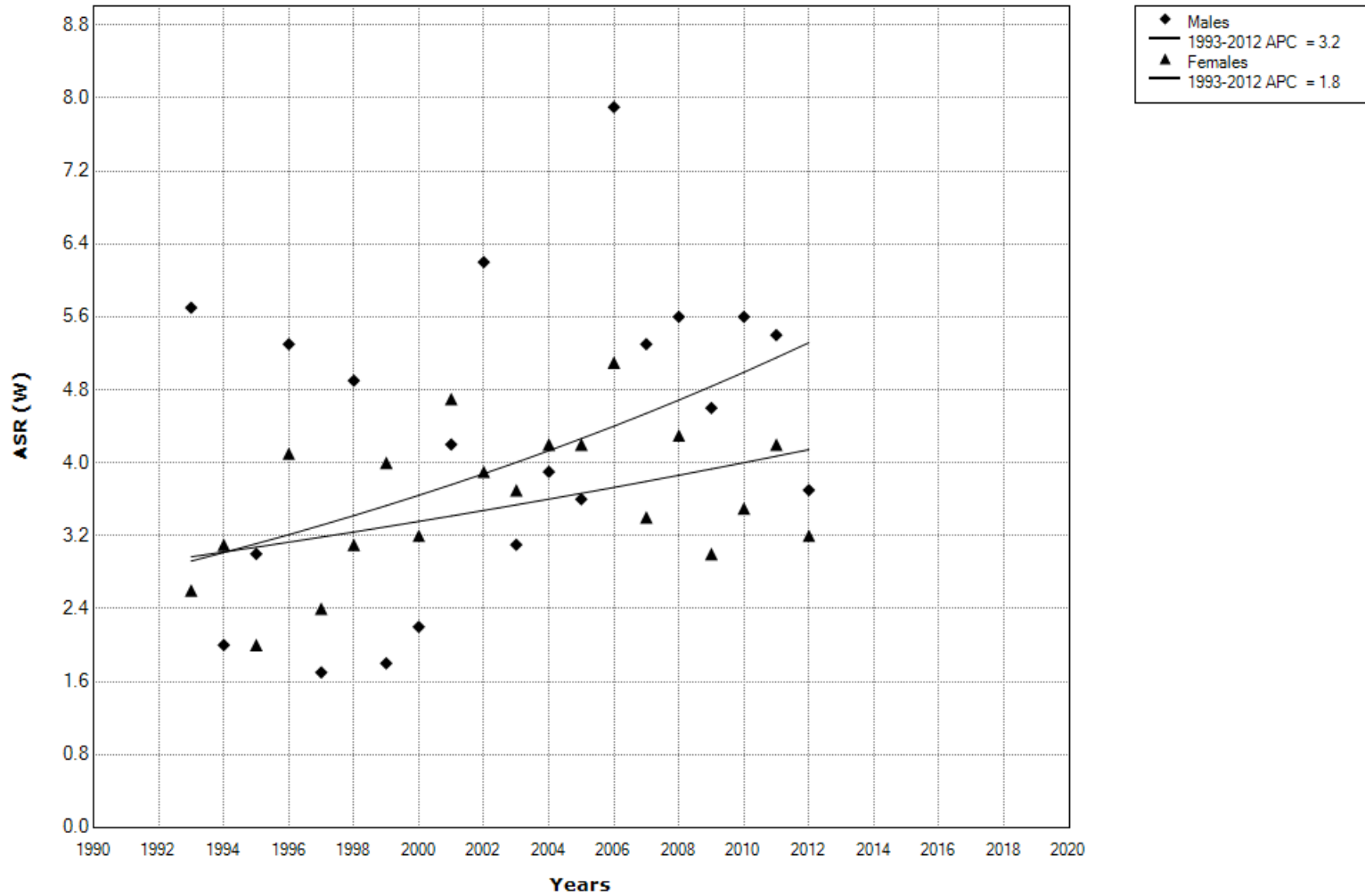
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 1 Joinpoint. Rejected Coincidence.

Belarus: Males: 1 Joinpoint versus Females: 0 Joinpoints



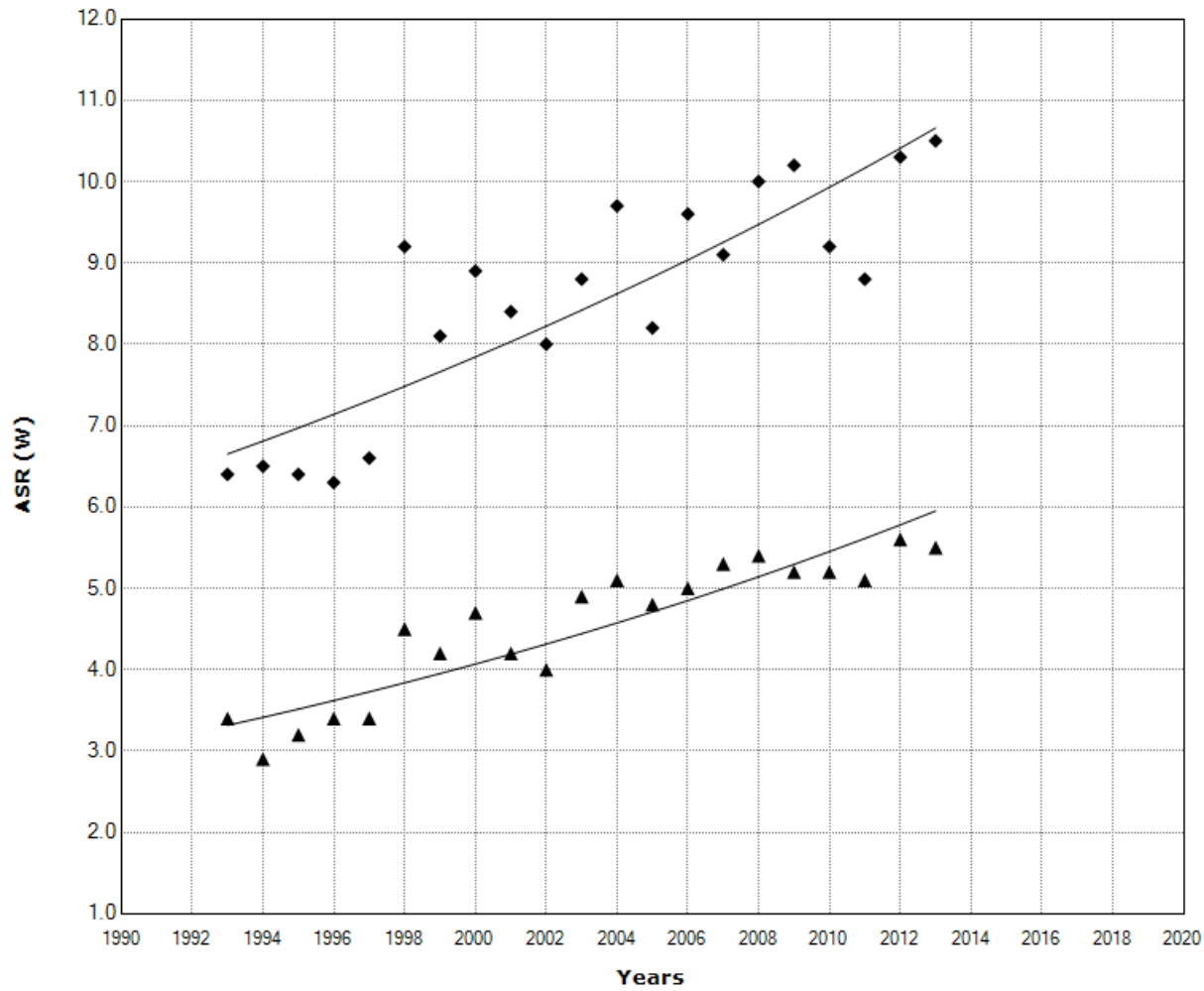
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

Brazil: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Failed to reject Coincidence.

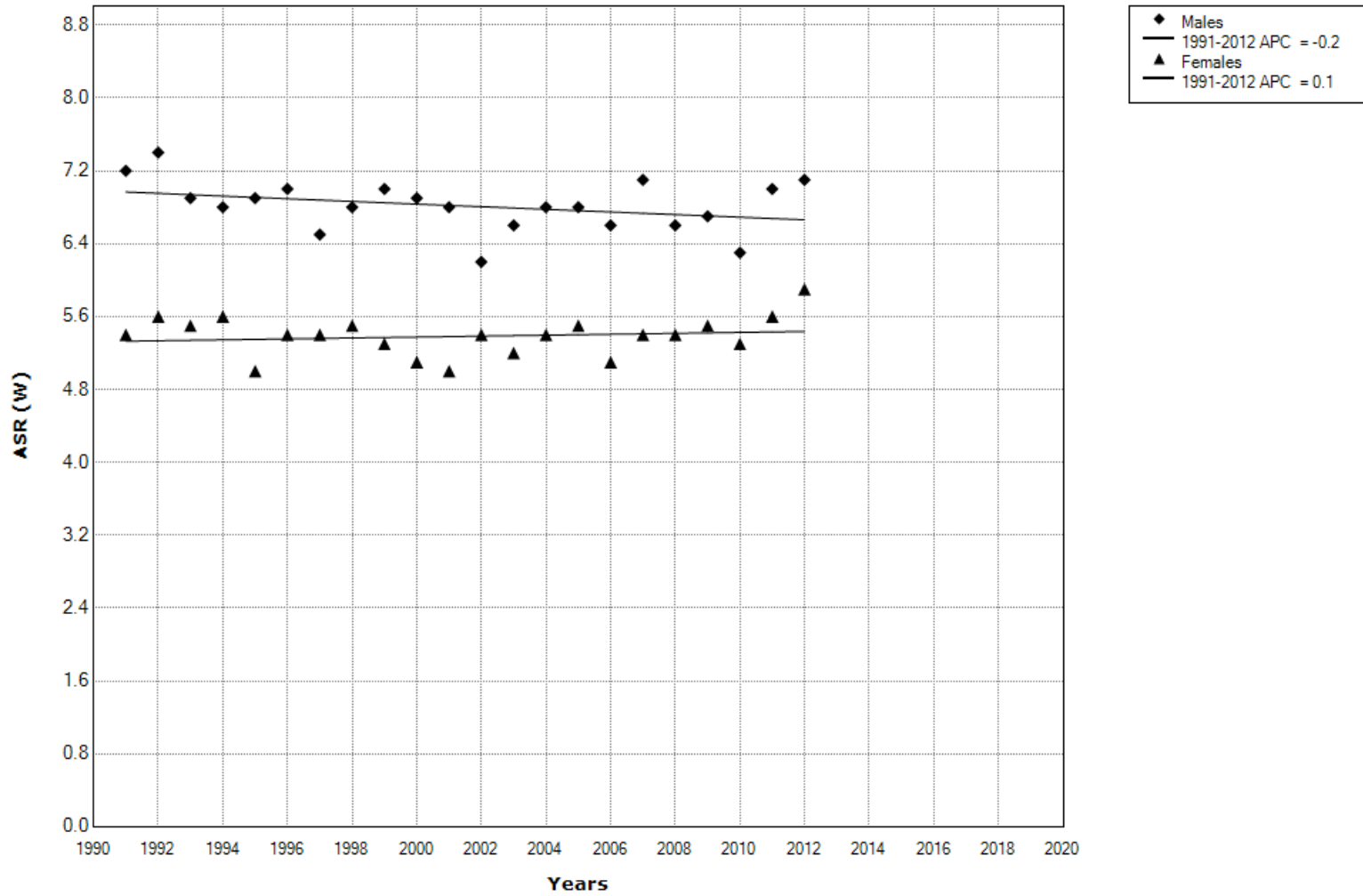
Bulgaria: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1993-2013 APC = 2.4¹
- ▲ Females
- 1993-2013 APC = 3.0¹

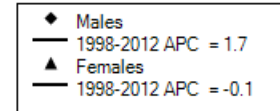
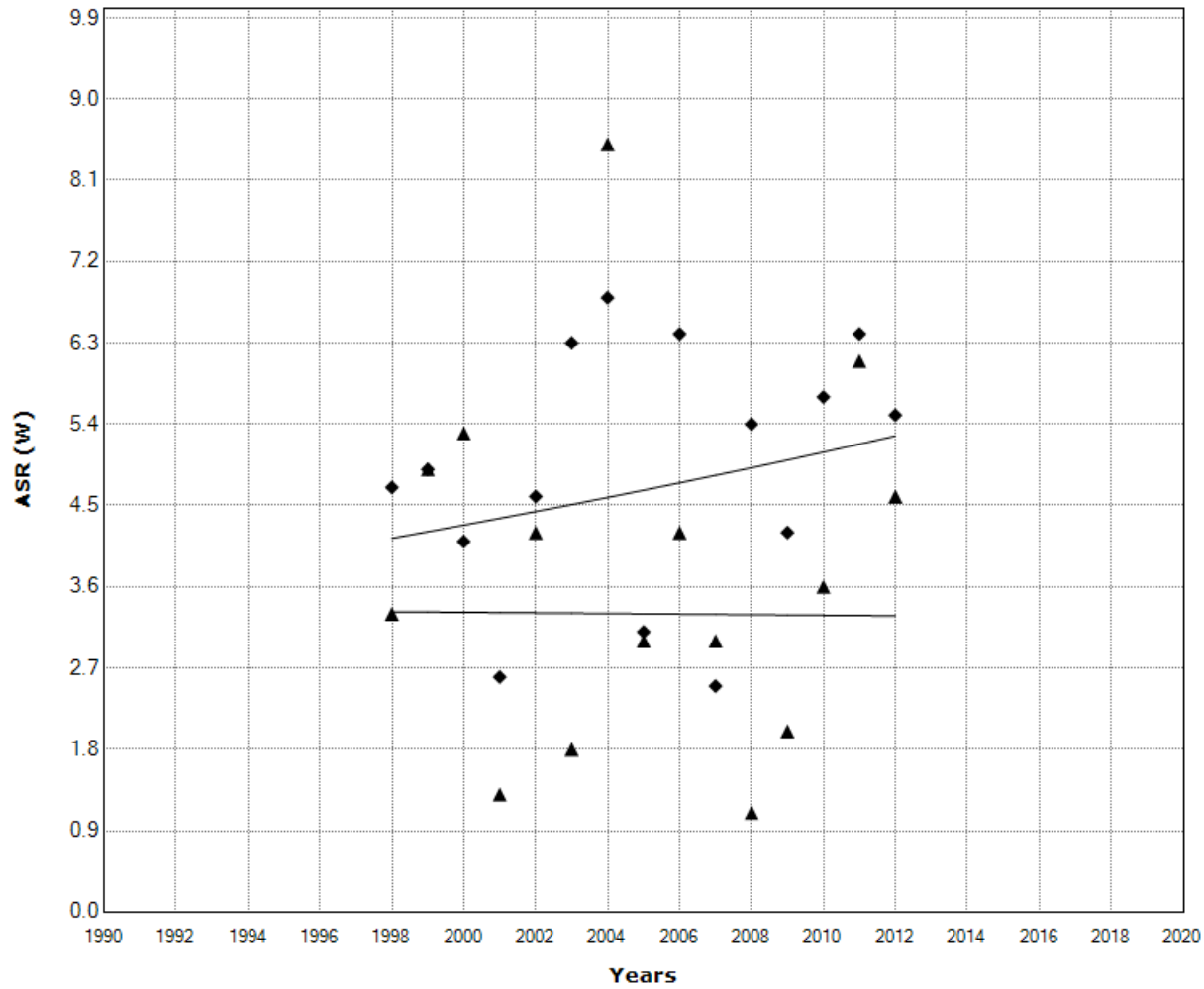
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Canada: Males: 0 Joinpoints versus Females: 0 Joinpoints



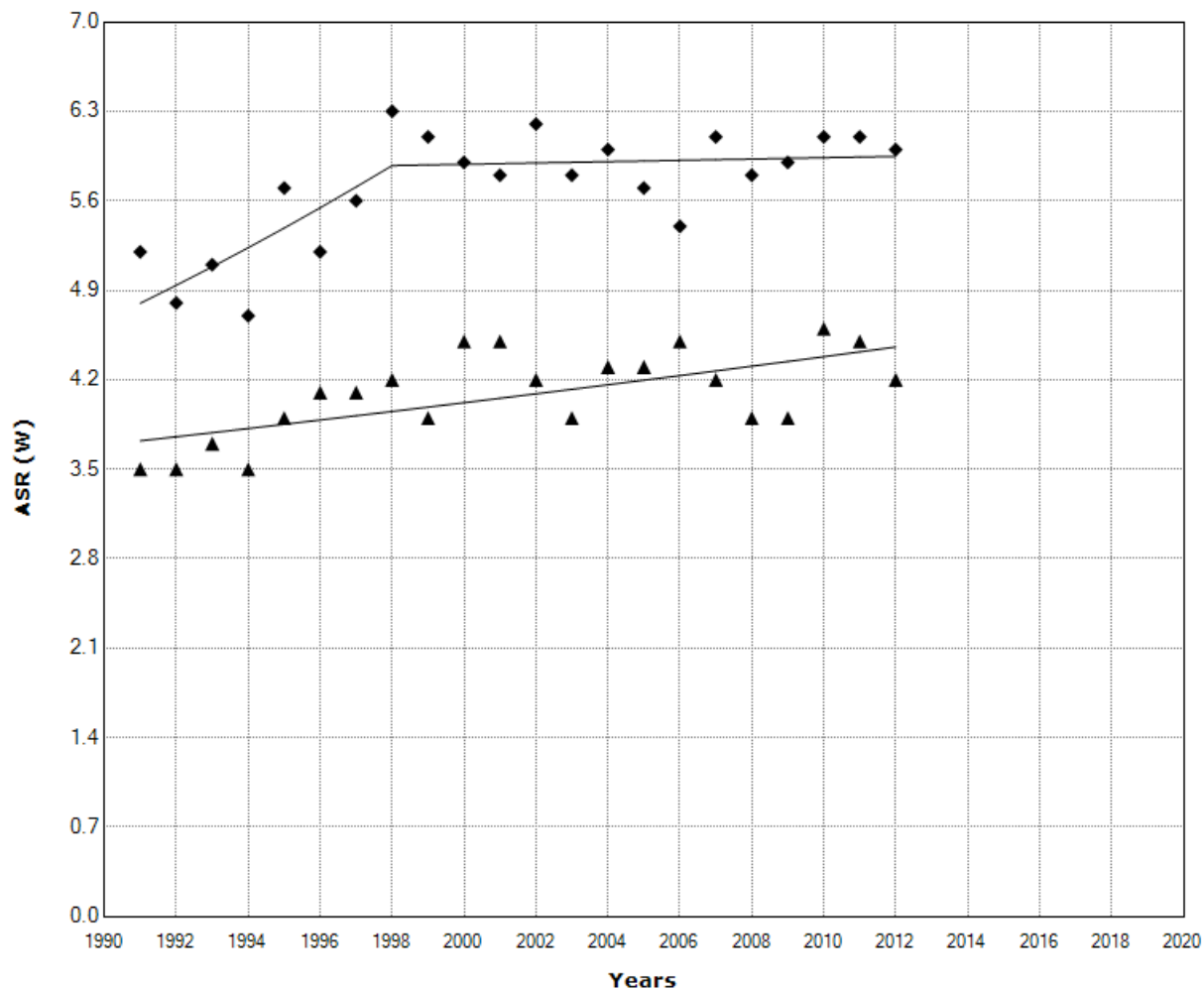
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Chile: Males: 0 Joinpoints versus Females: 0 Joinpoints



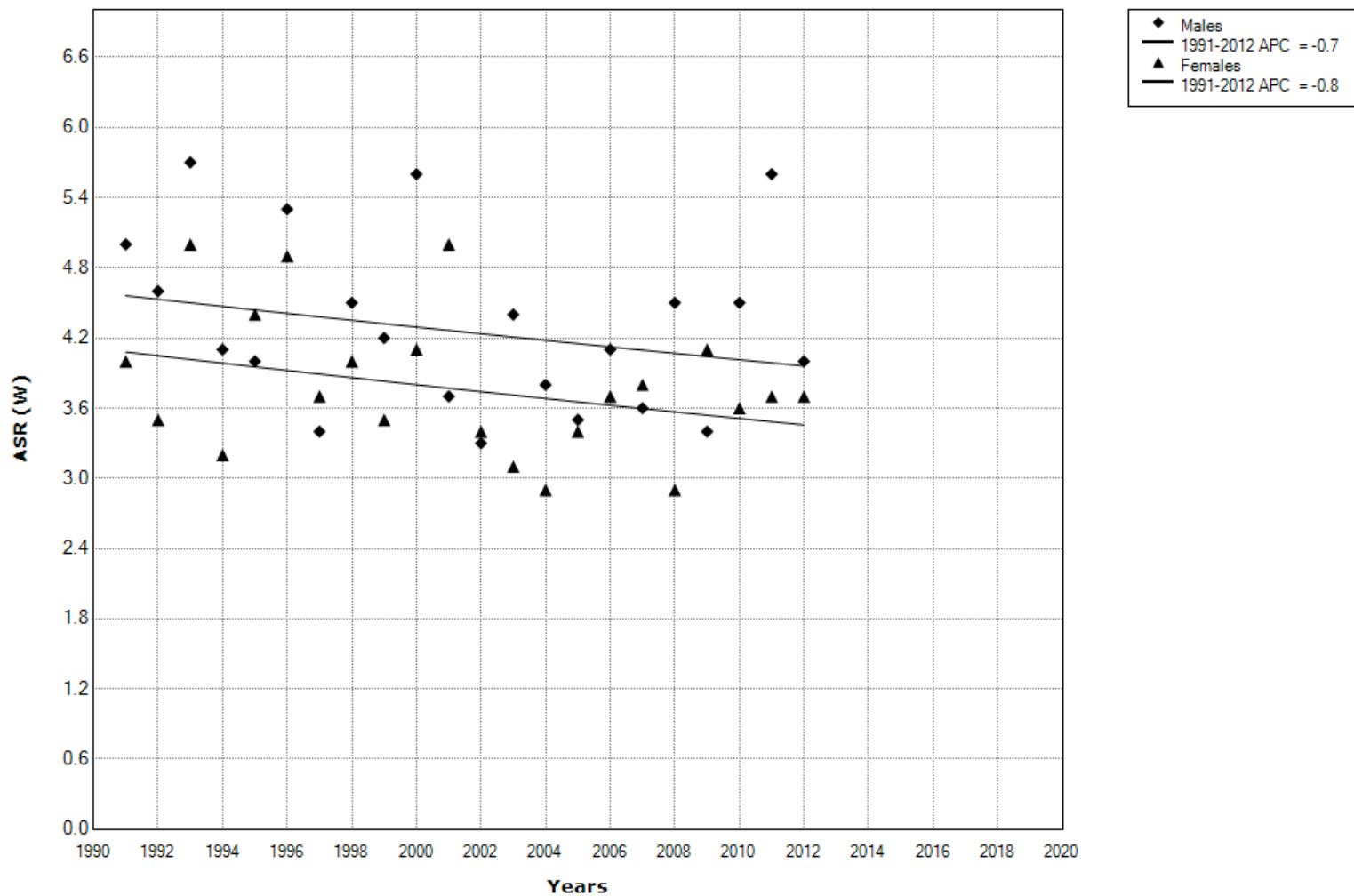
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

China: Males: 1 Joinpoint versus Females: 0 Joinpoints



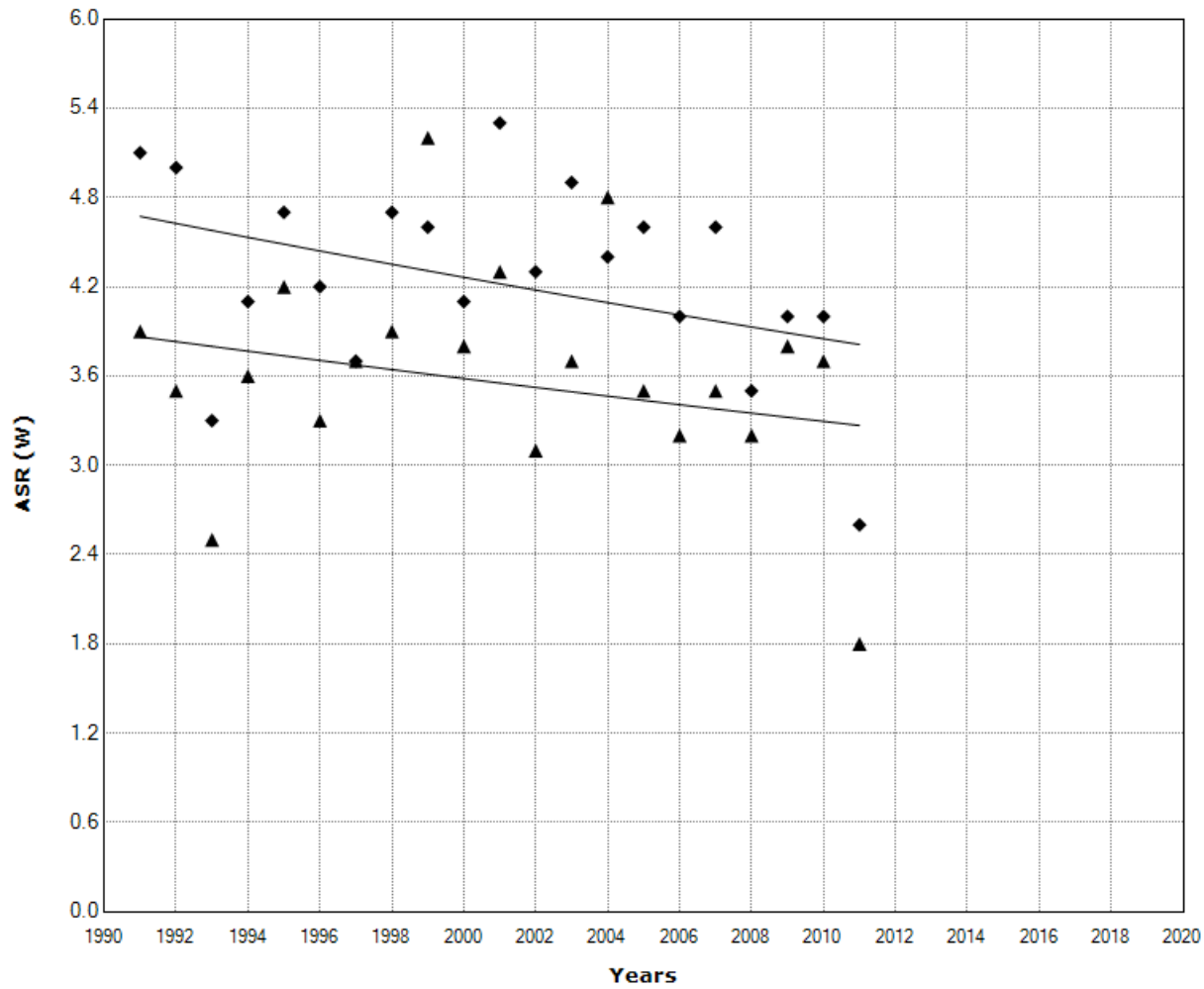
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

Colombia: Males: 0 Joinpoints versus Females: 0 Joinpoints



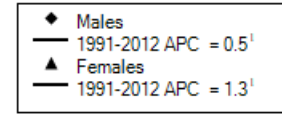
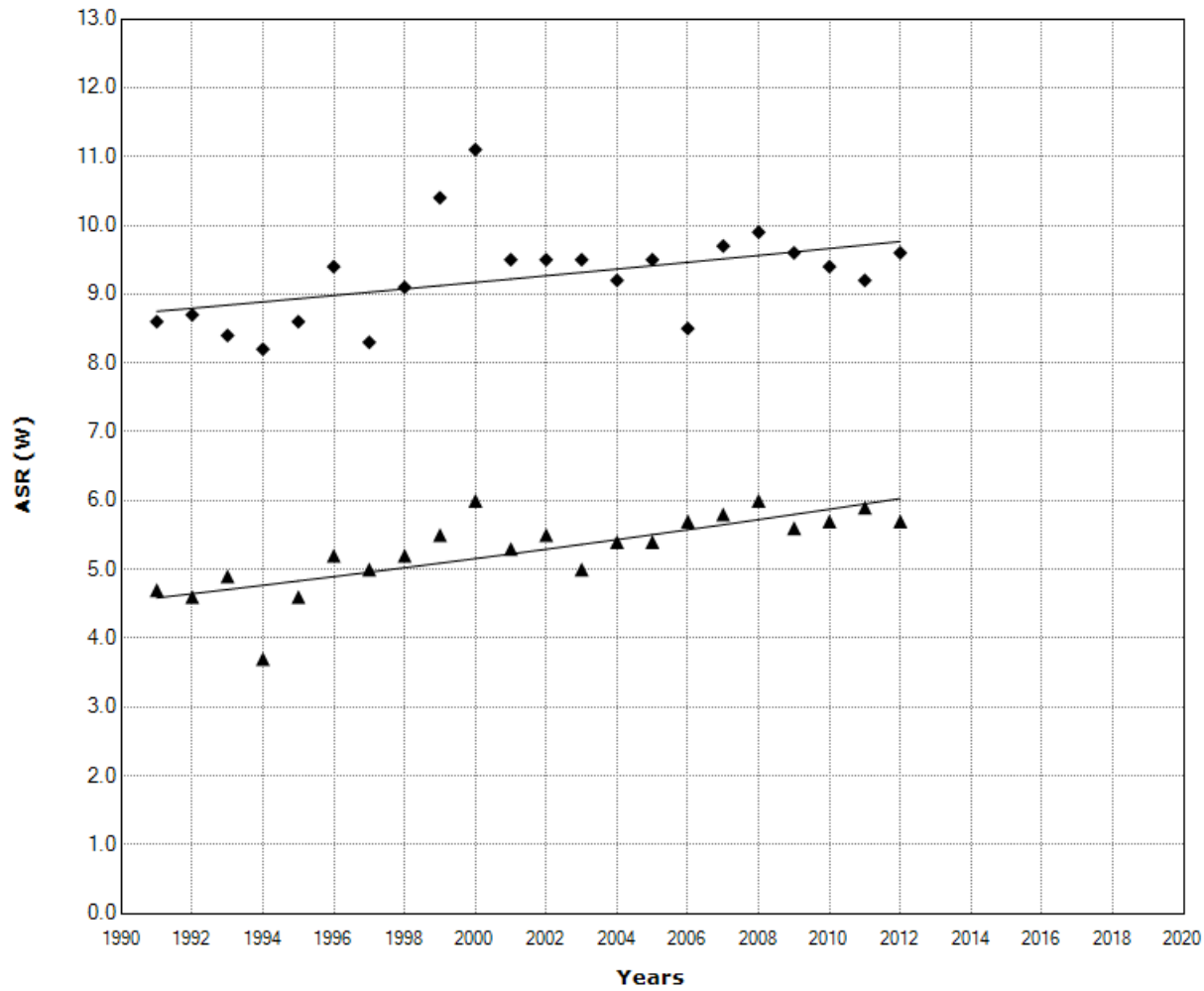
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Costa Rica: Males: 0 Joinpoints versus Females: 0 Joinpoints



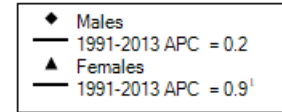
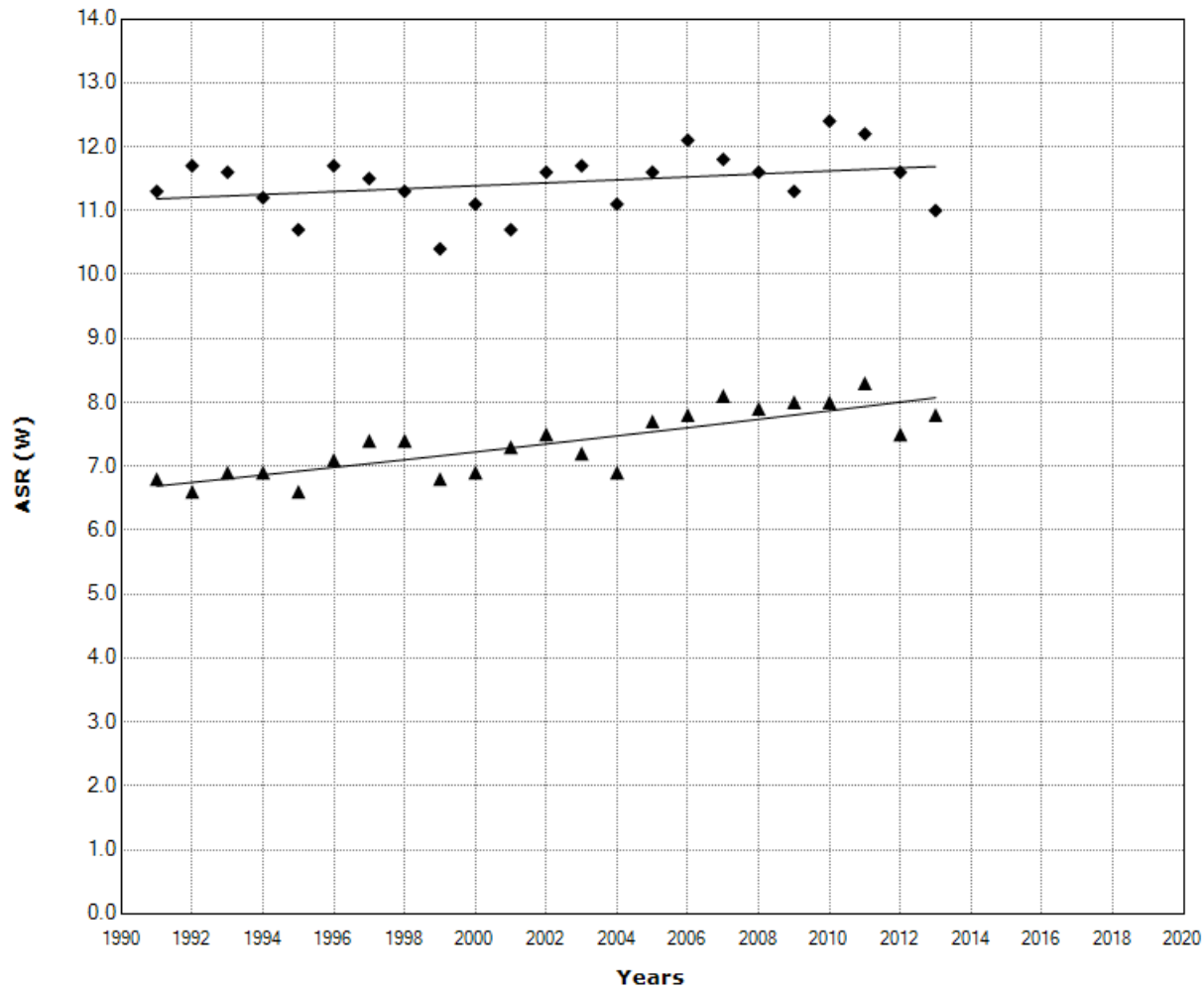
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Croatia: Males: 0 Joinpoints versus Females: 0 Joinpoints



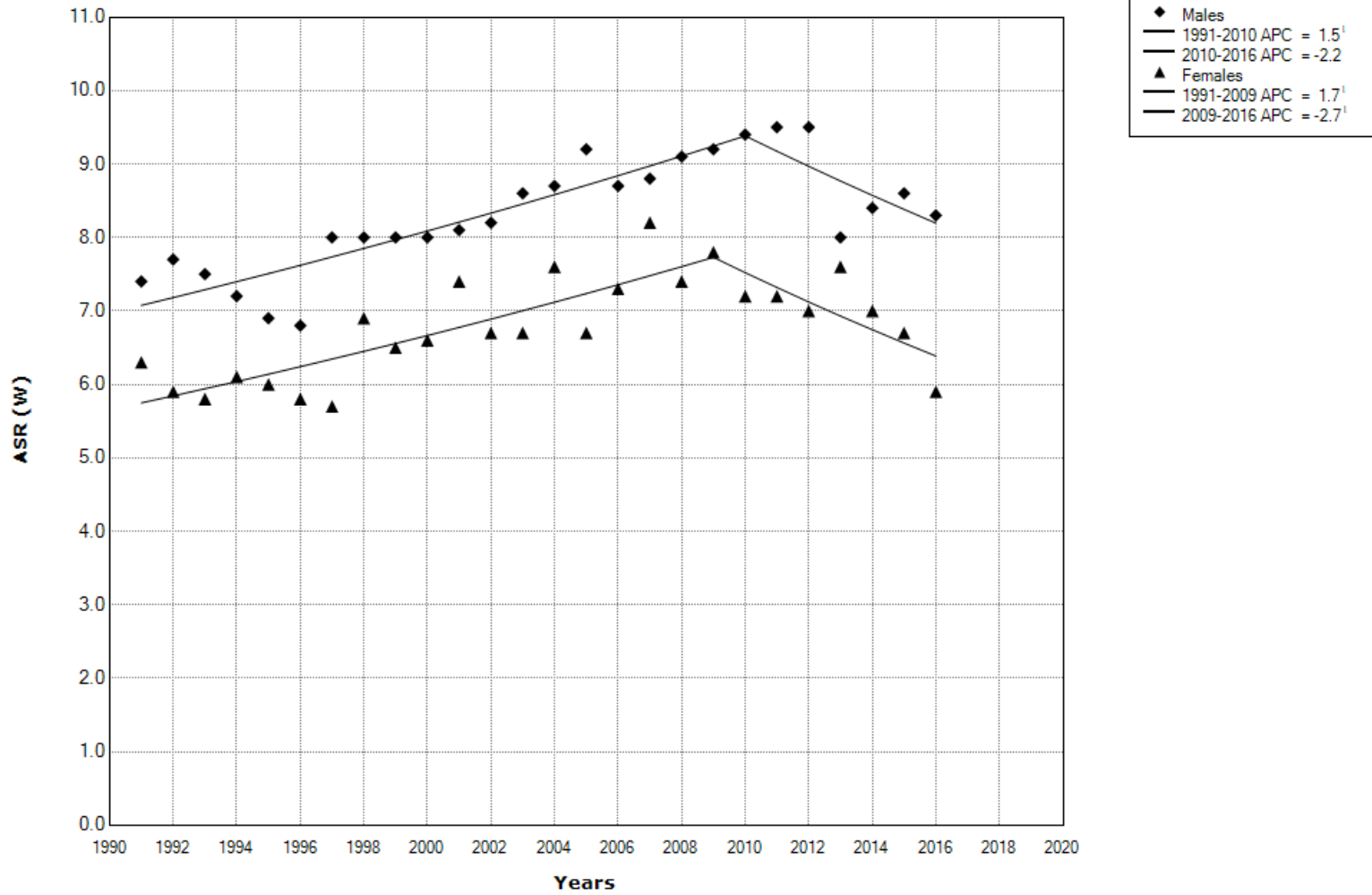
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Czechia: Males: 0 Joinpoints versus Females: 0 Joinpoints



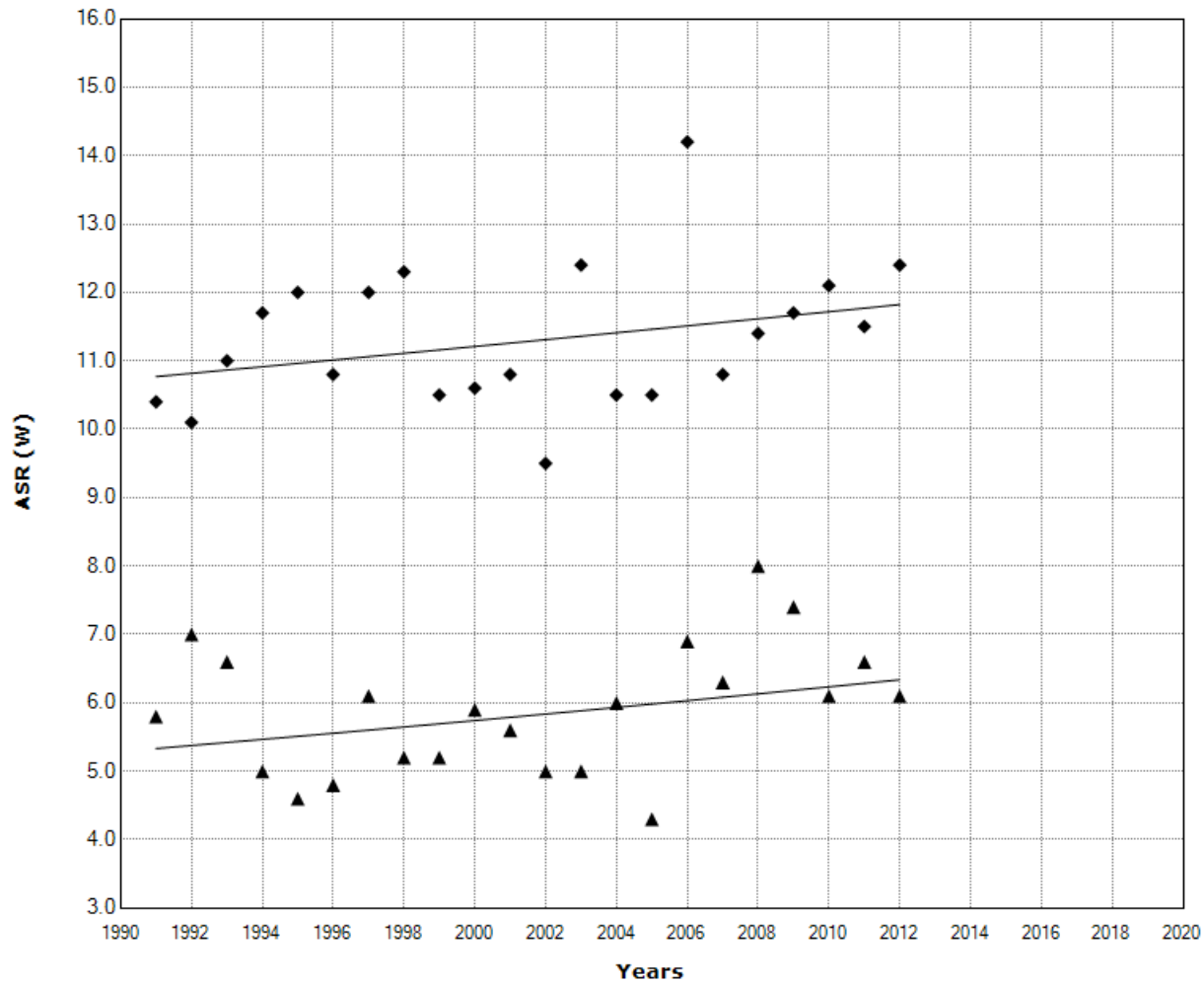
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Denmark: Males: 1 Joinpoint versus Females: 1 Joinpoint



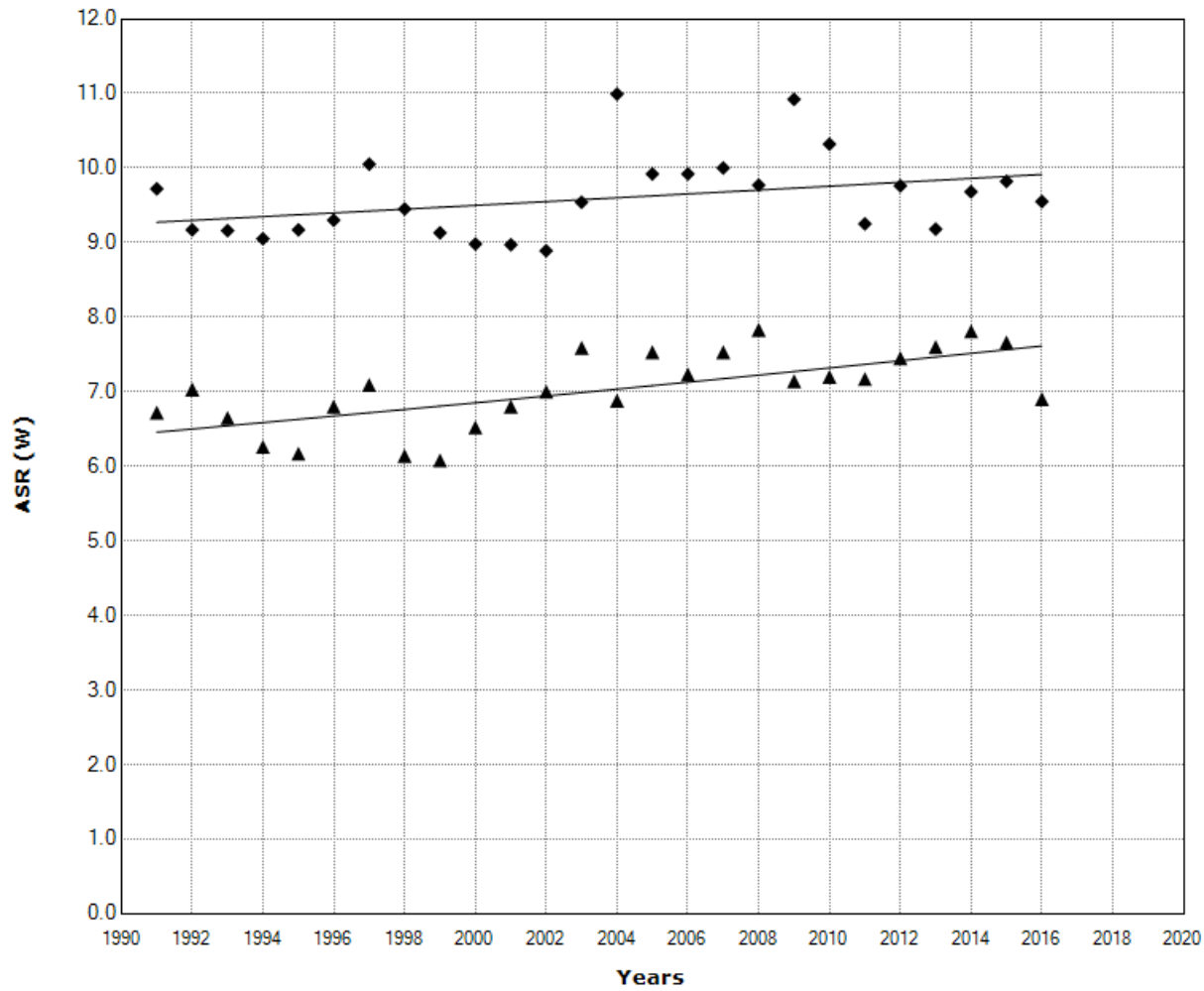
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Rejected Coincidence.

Estonia: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

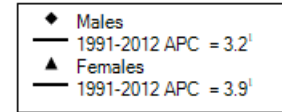
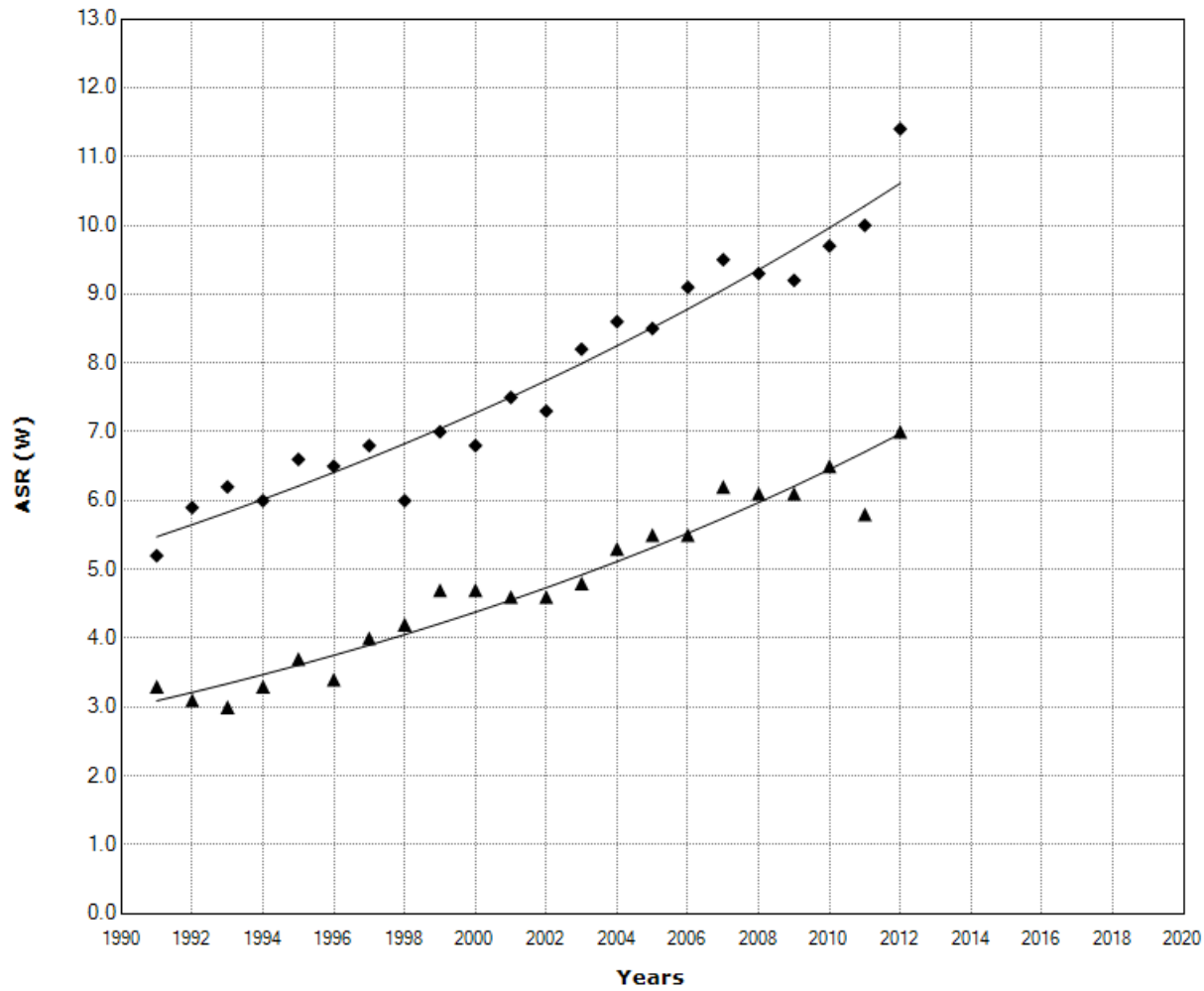
Finland: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1991-2016 APC = 0.3
- ▲ Females
- 1991-2016 APC = 0.7¹

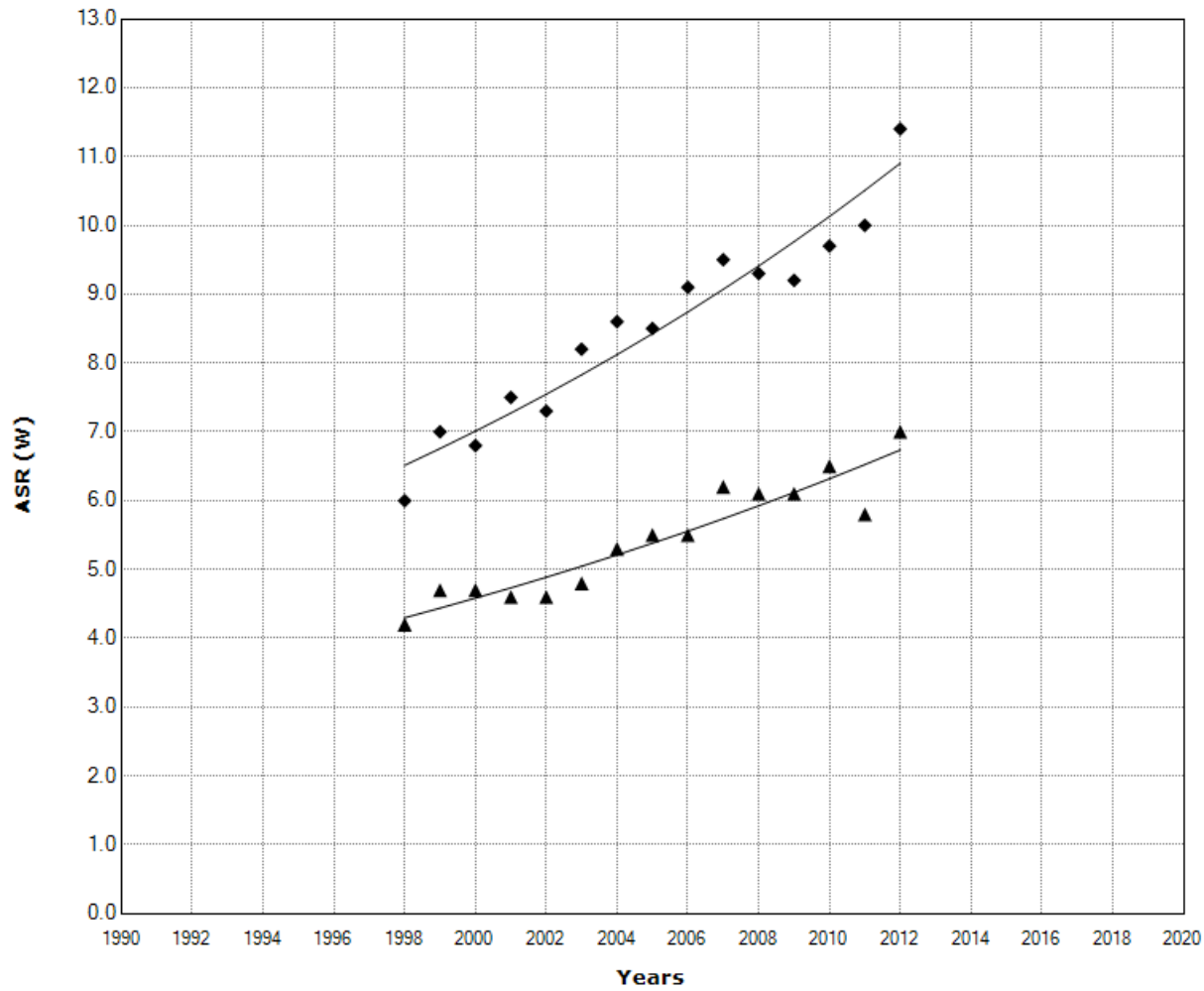
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

France: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

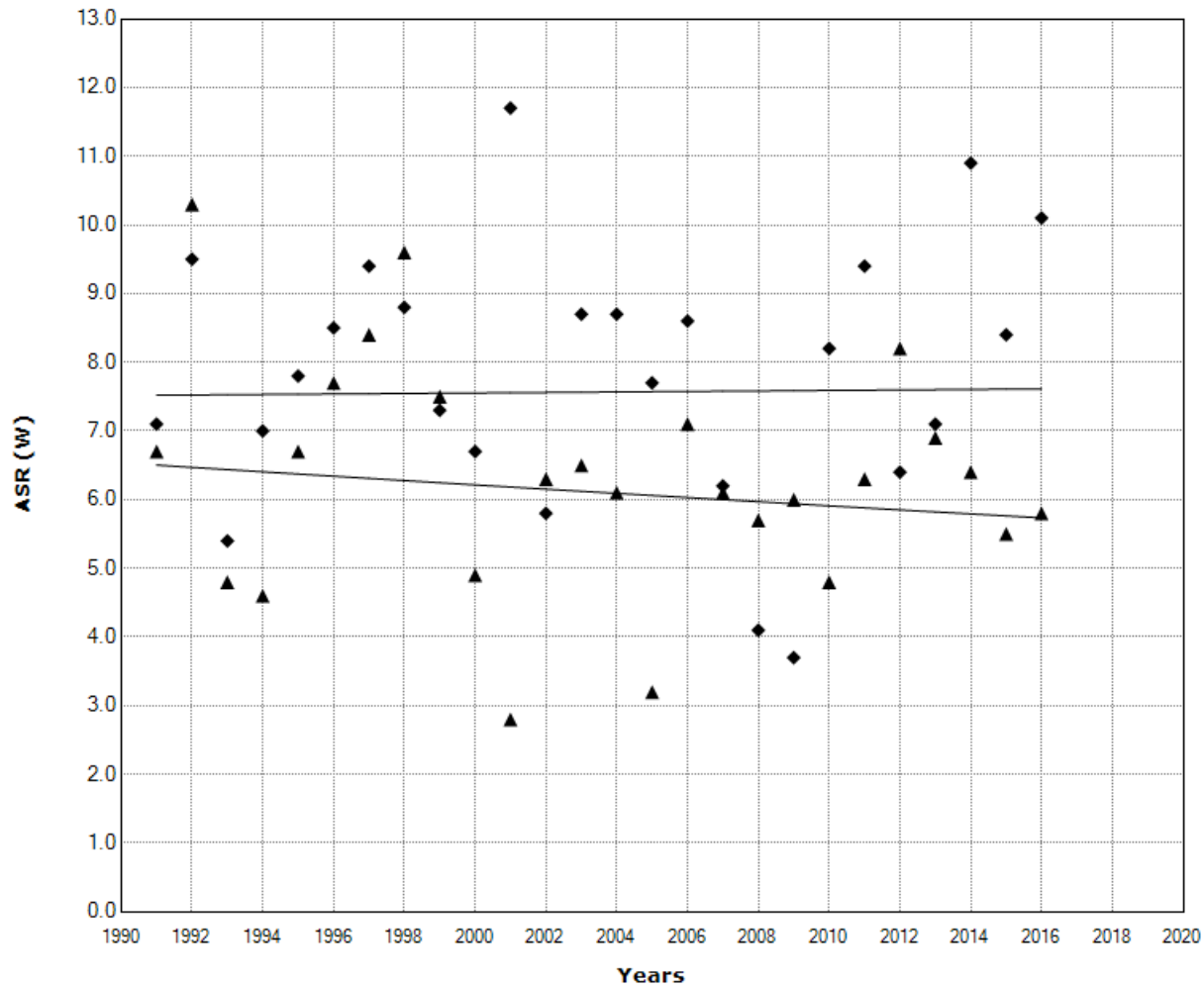
Germany: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1998-2012 APC = 3.7¹
- ▲ Females
- 1998-2012 APC = 3.3¹

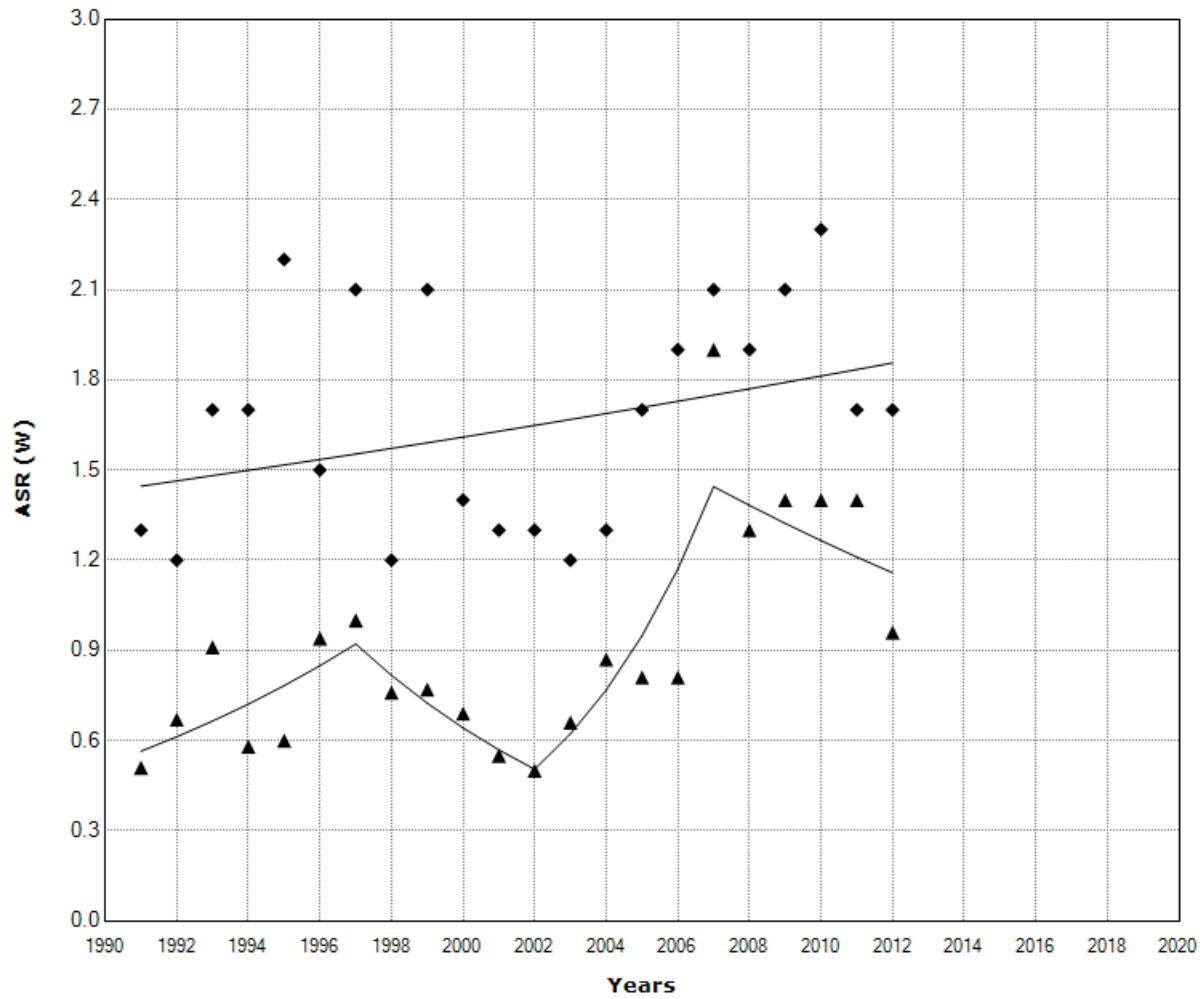
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Iceland: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

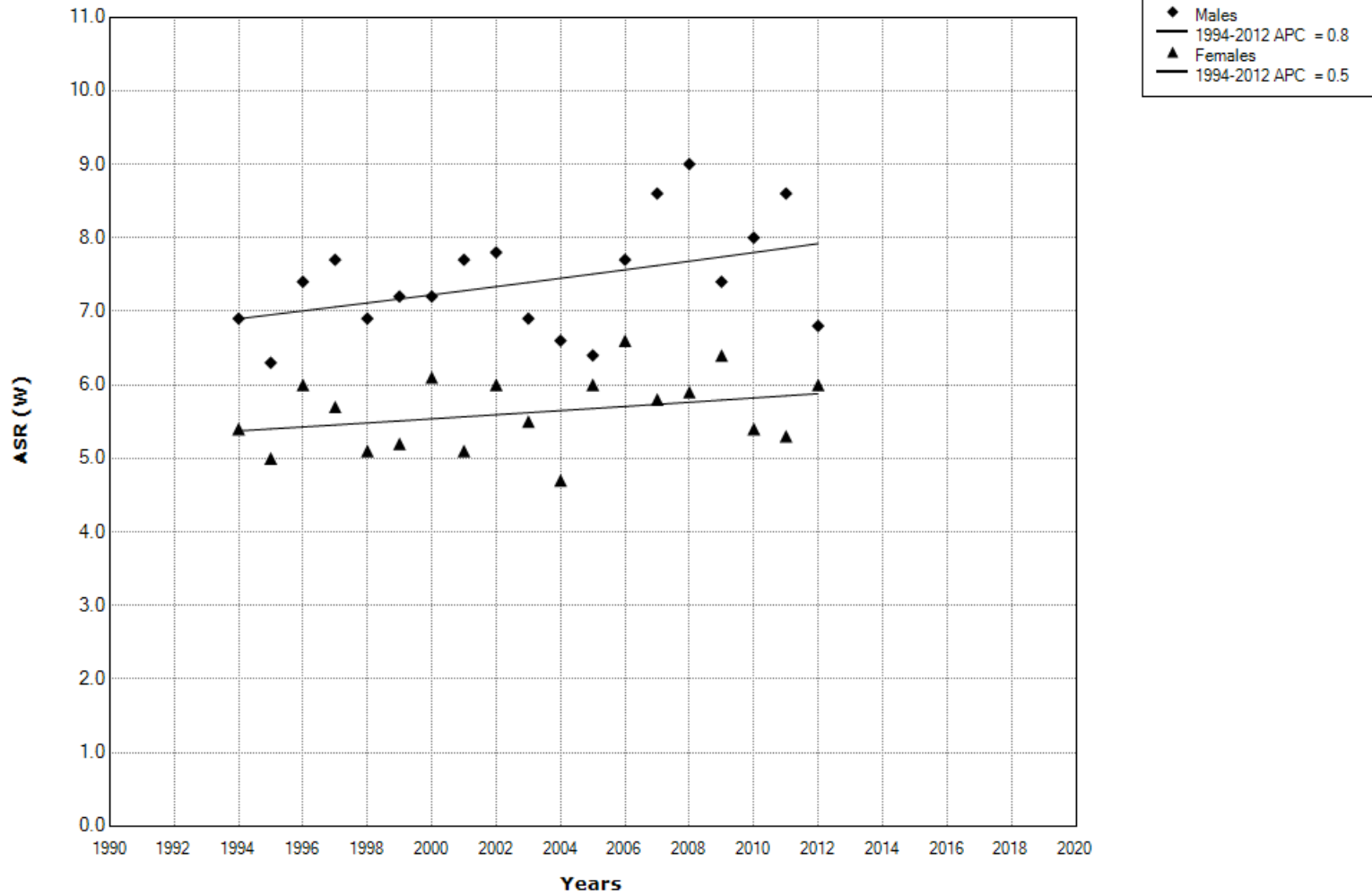
India: Males: 0 Joinpoints versus Females: 3 Joinpoints



- ◆ Males
- 1991-2012 APC = 1.2
- ▲ Females
- 1991-1997 APC = 8.5
- 1997-2002 APC = -11.3
- 2002-2007 APC = 23.4¹
- 2007-2012 APC = -4.3

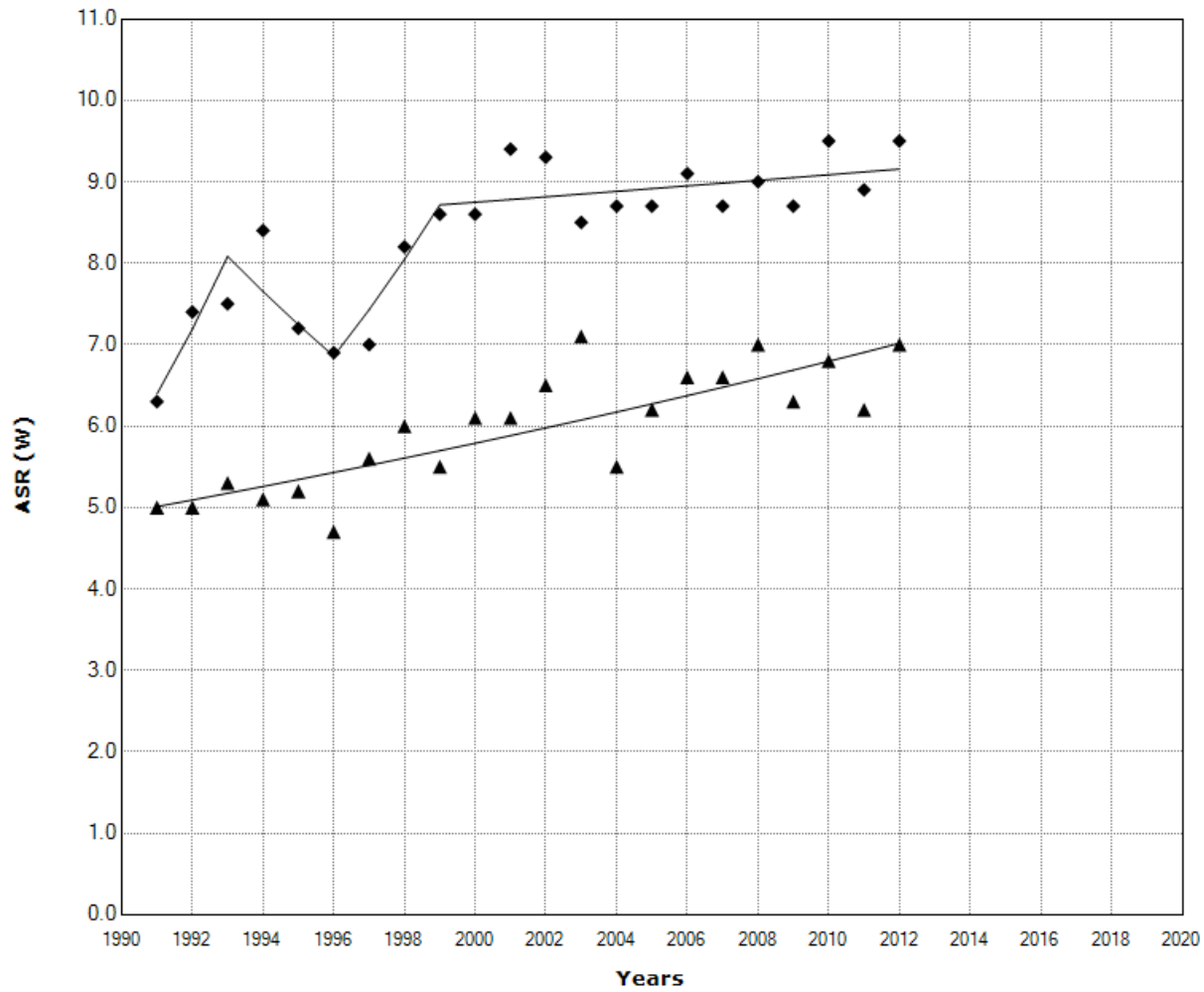
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 3 Joinpoints. Rejected Coincidence.

Ireland: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

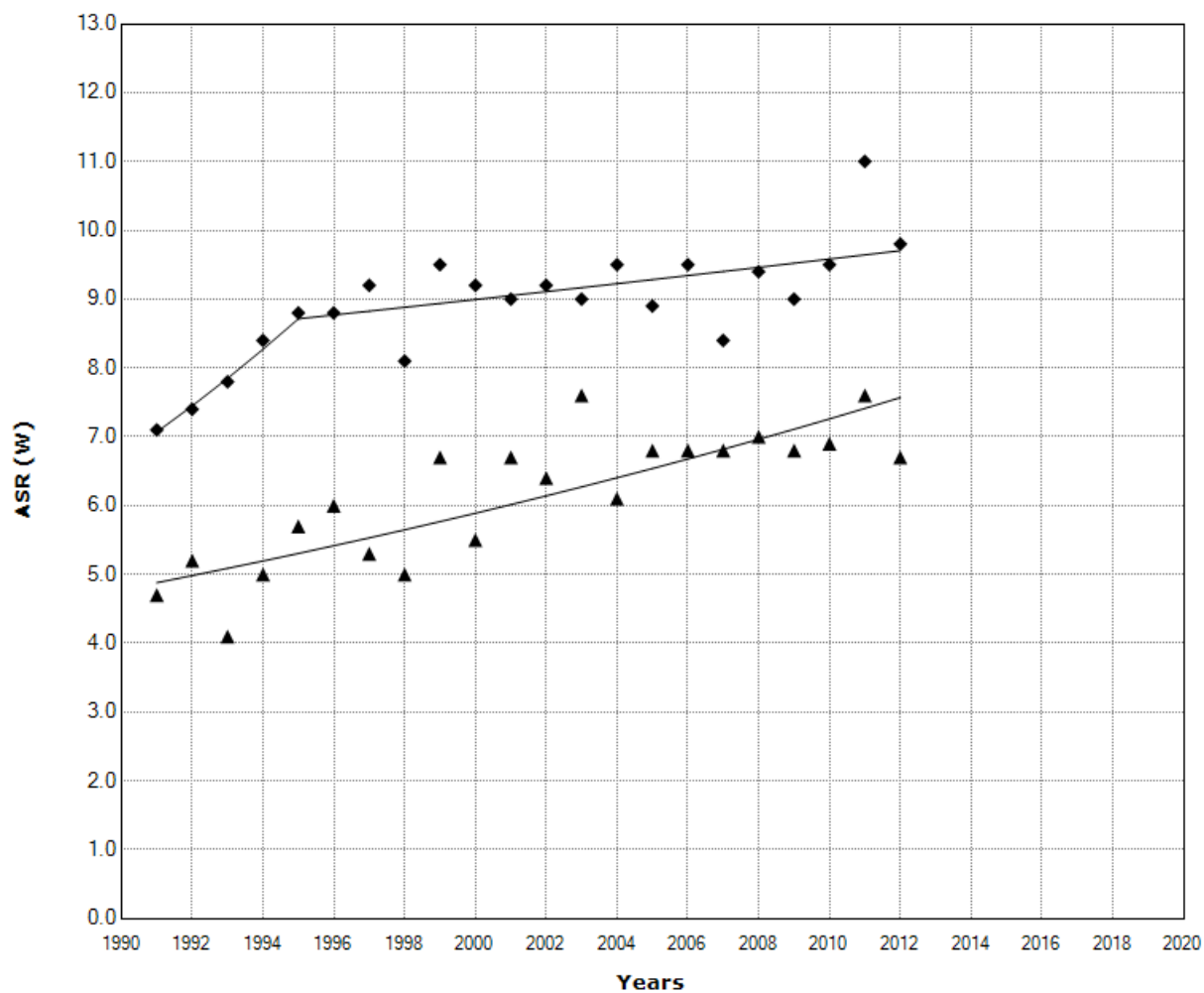
Israel: Males: 3 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1991-1993 APC = 12.4
- 1993-1996 APC = -5.3
- 1996-1999 APC = 8.3
- 1999-2012 APC = 0.4
- ▲ Females
- 1991-2012 APC = 1.6¹

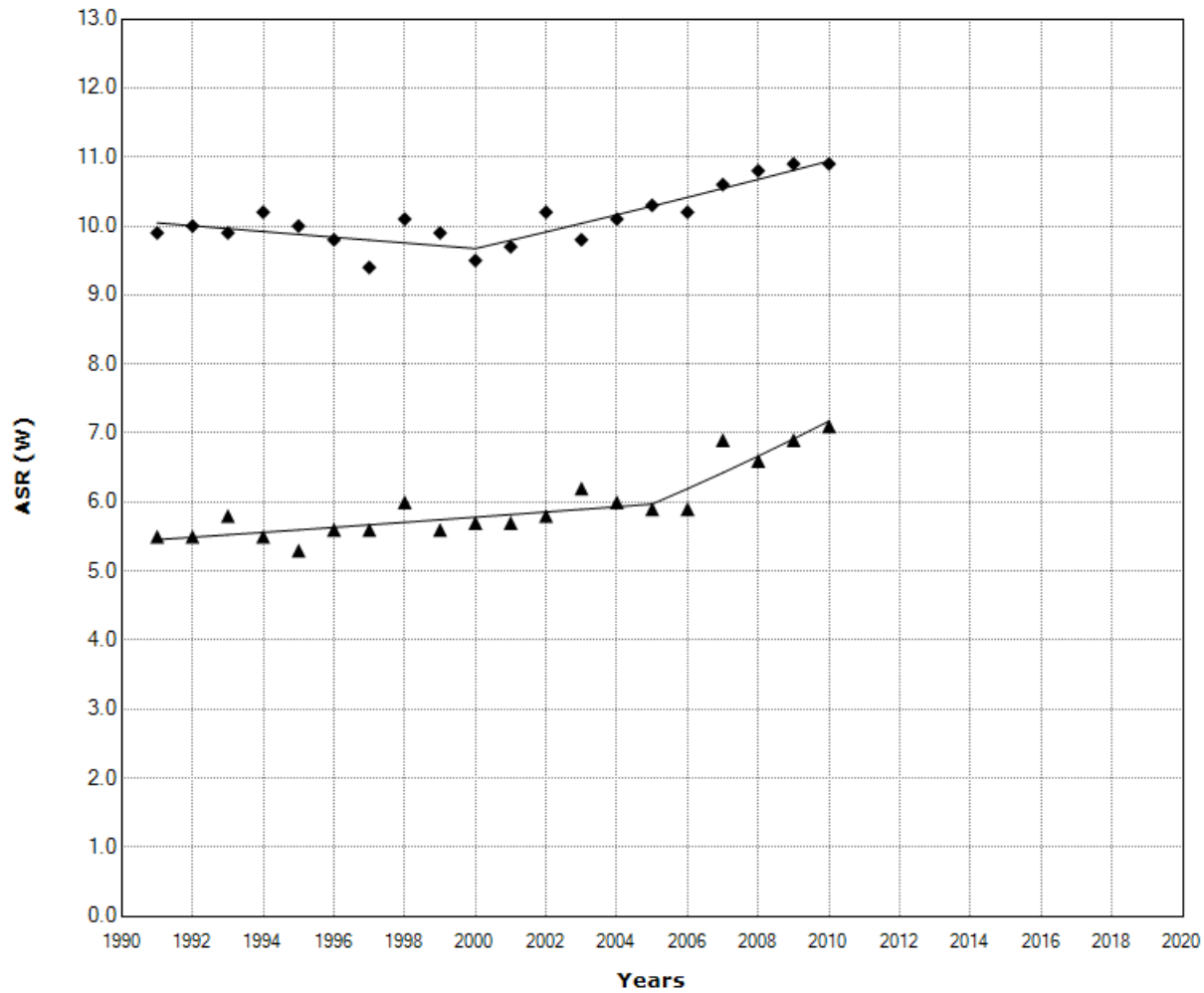
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 3 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Italy: Males: 1 Joinpoint versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

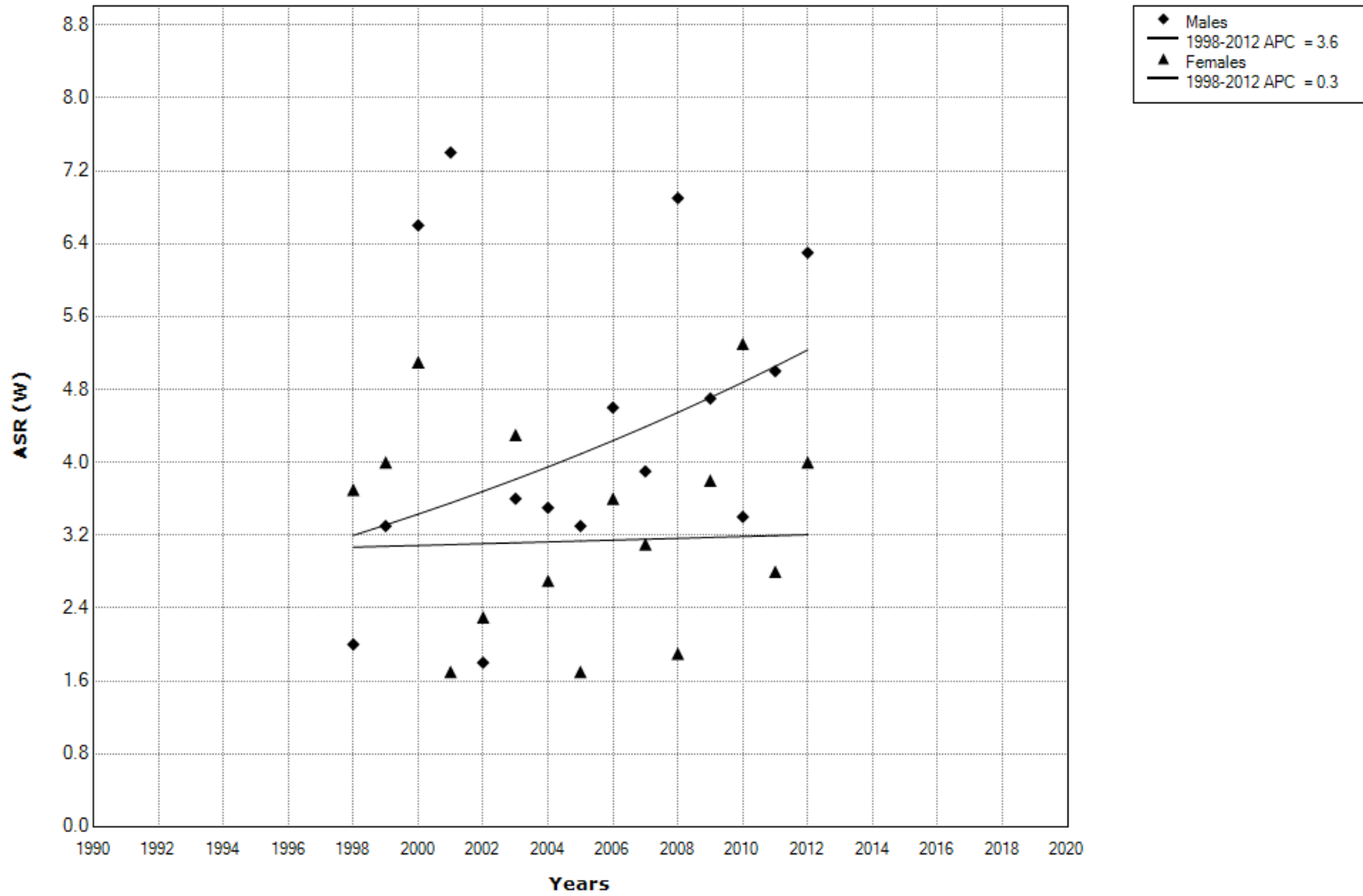
Japan: Males: 1 Joinpoint versus Females: 1 Joinpoint



- ◆ Males
- 1991-2000 APC = -0.4
- 2000-2010 APC = 1.2¹
- ▲ Females
- 1991-2005 APC = 0.6¹
- 2005-2010 APC = 3.7¹

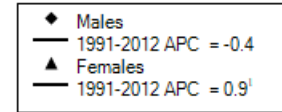
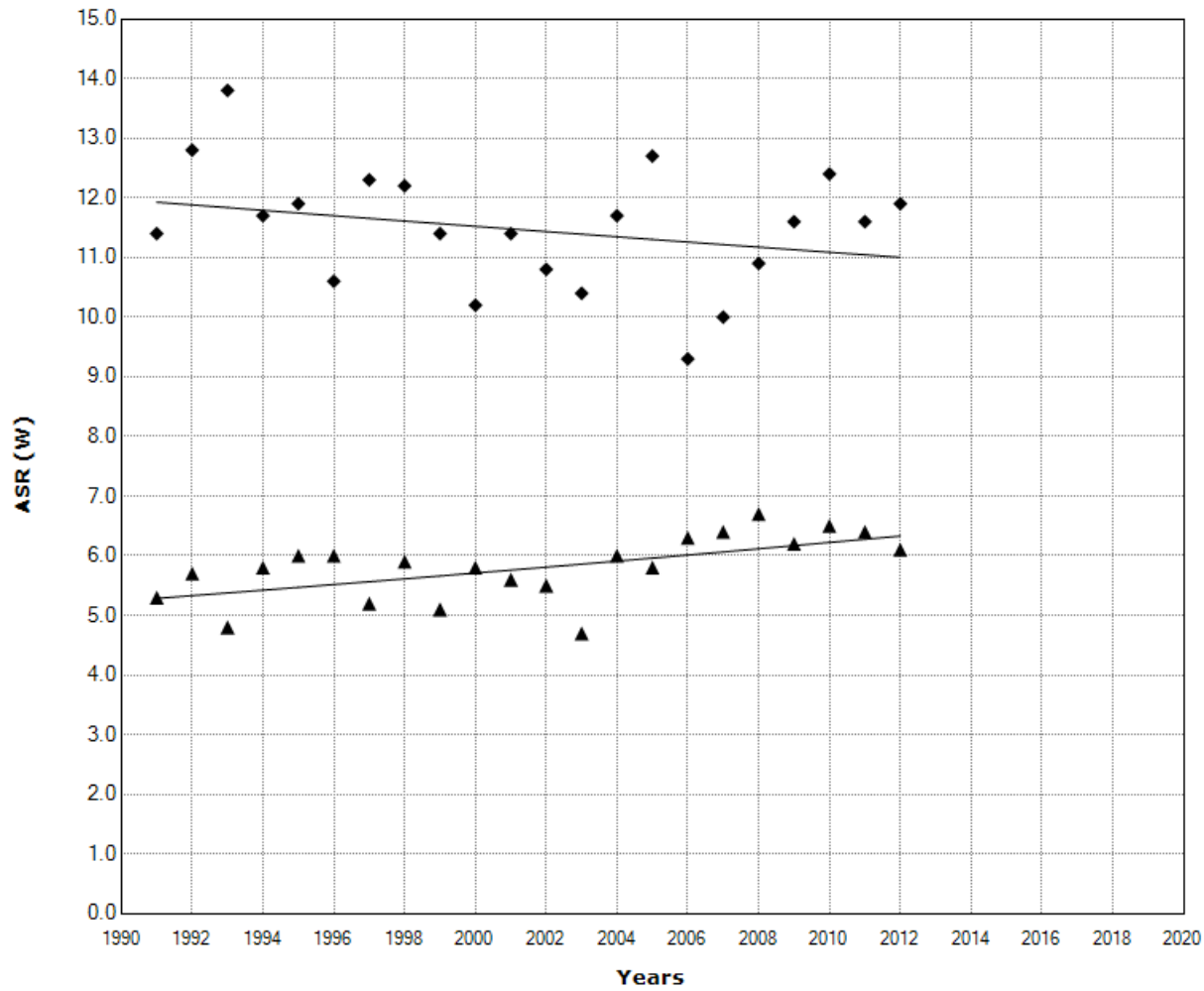
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Rejected Coincidence.

Kuwait: Males: 0 Joinpoints versus Females: 0 Joinpoints



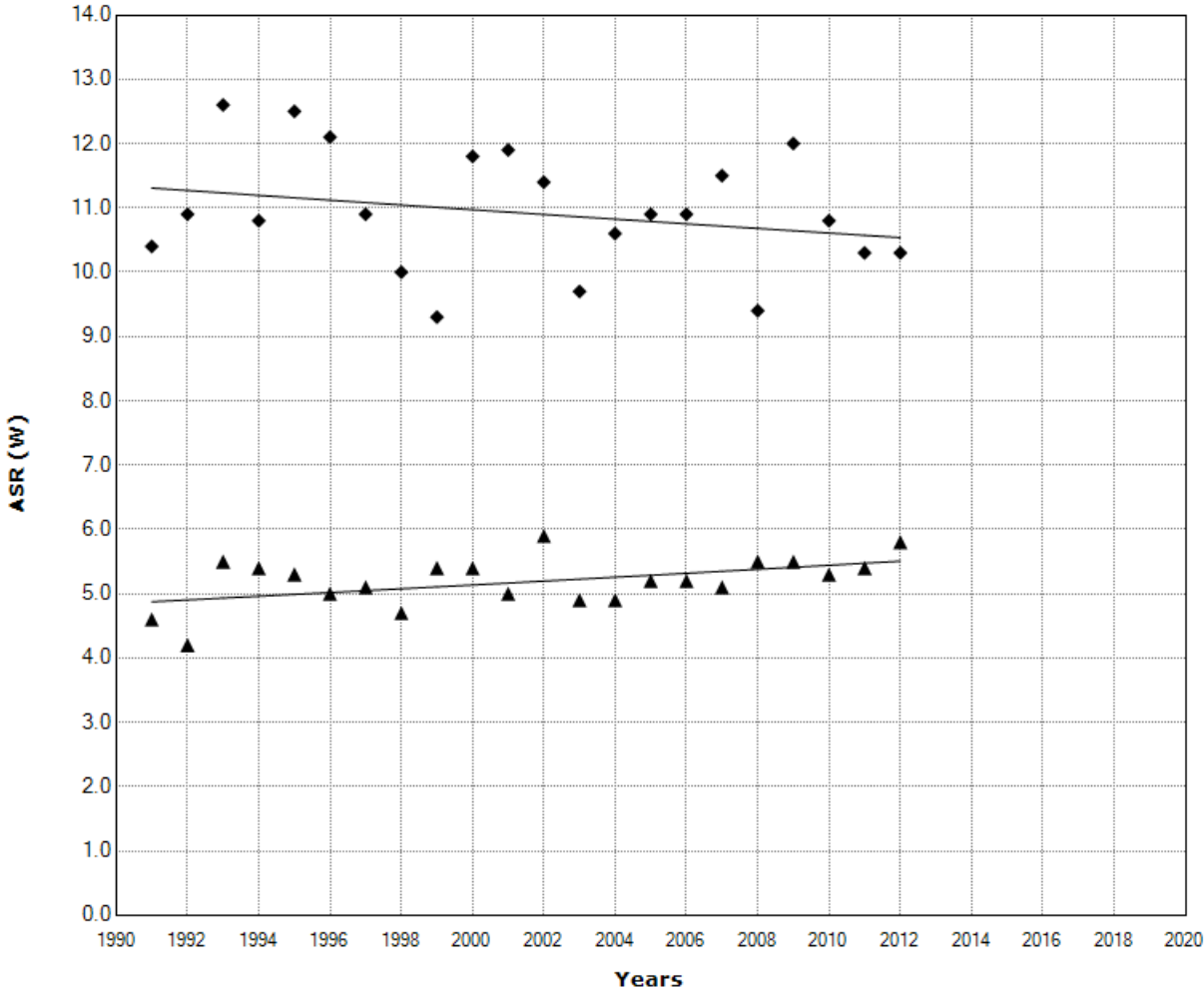
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Failed to reject Coincidence.

Latvia: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

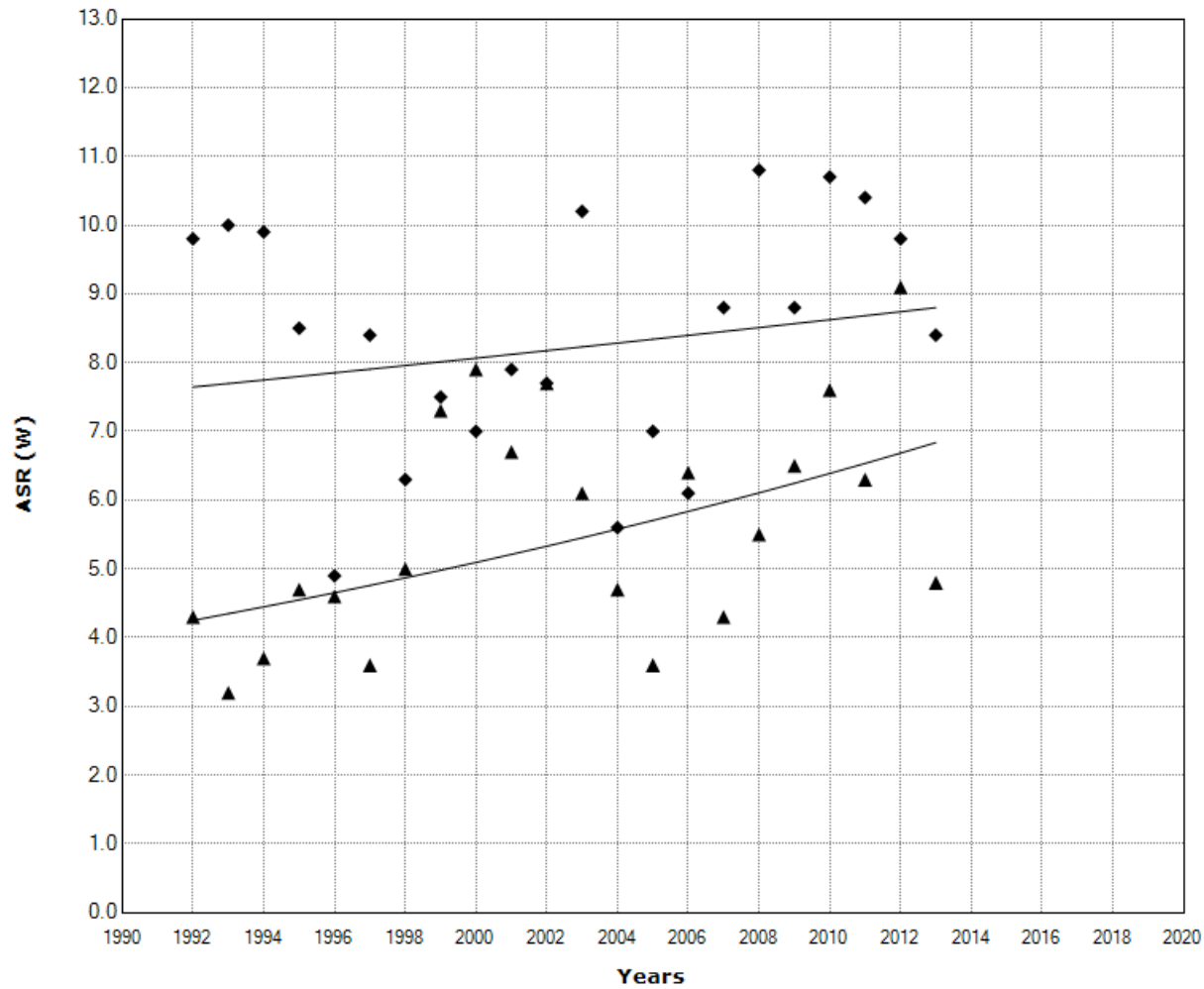
Lithuania: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1991-2012 APC = -0.3
- ▲ Females
- 1991-2012 APC = 0.6¹

¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

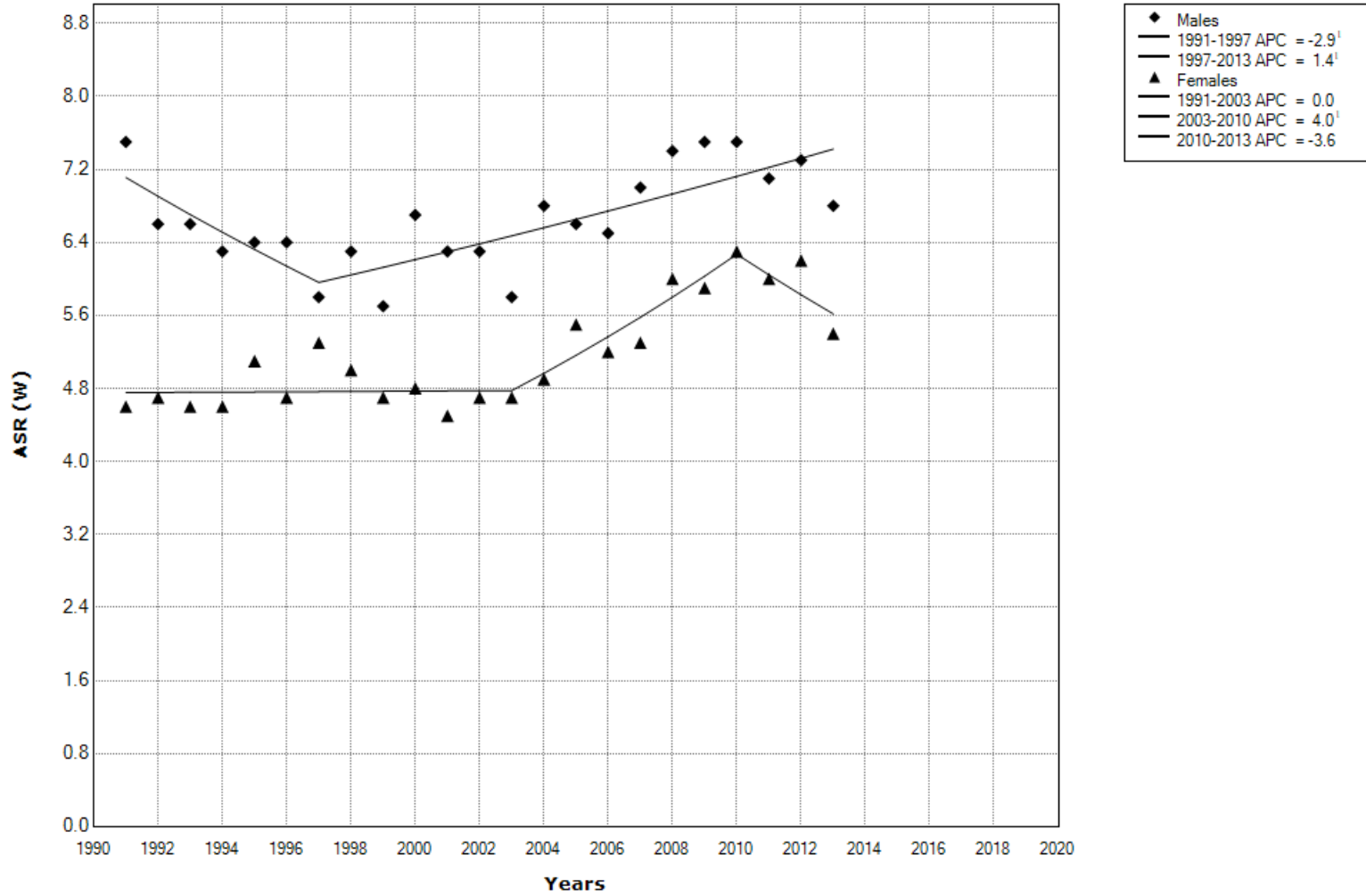
Malta: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1992-2013 APC = 0.7
- ▲ Females
- - - 1992-2013 APC = 2.3¹

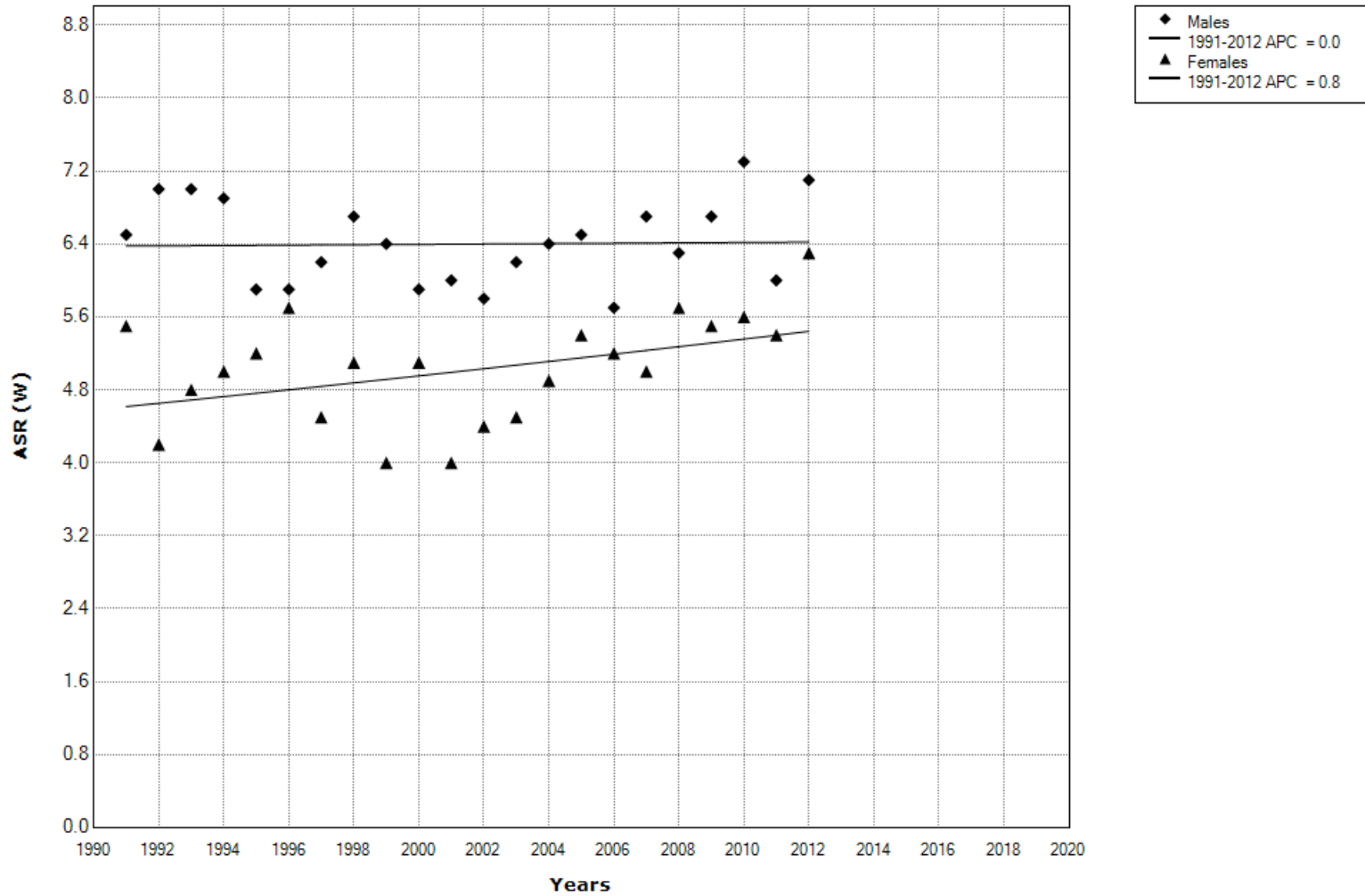
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Netherlands: Males: 1 Joinpoint versus Females: 2 Joinpoints



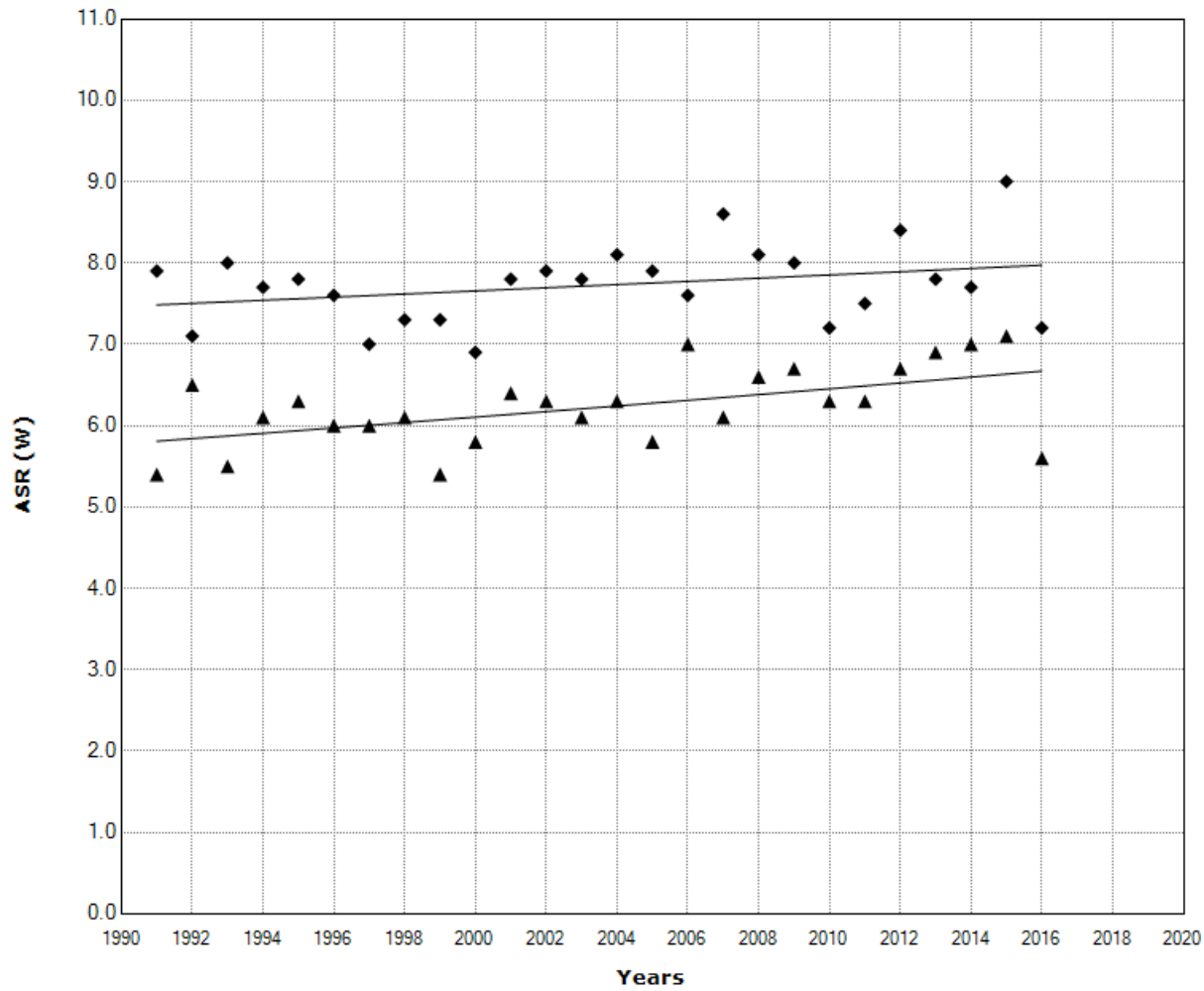
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 2 Joinpoints. Rejected Coincidence.

New Zealand: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

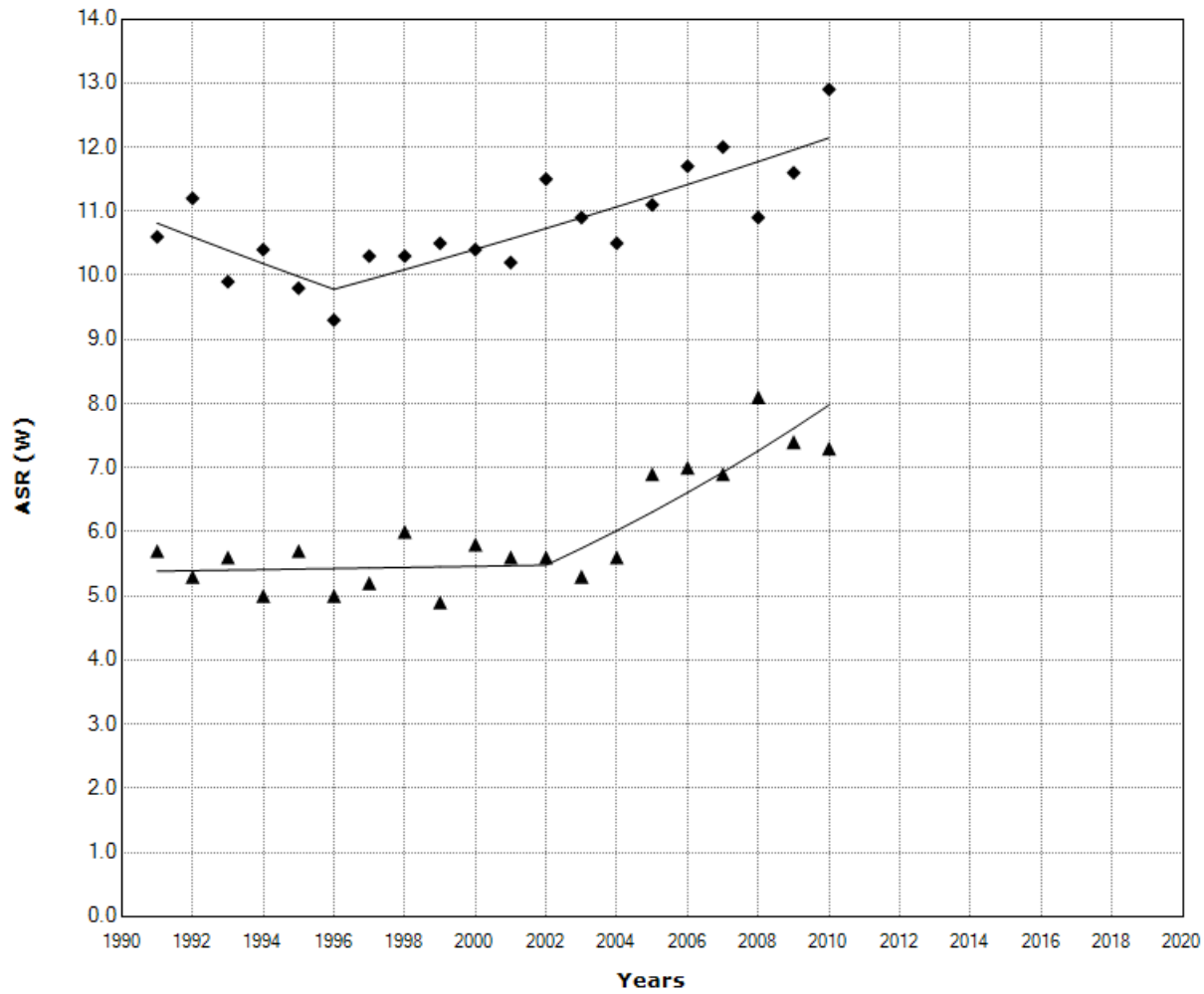
Norway: Males: 0 Joinpoints versus Females: 0 Joinpoints



◆ Males
 — 1991-2016 APC = 0.3
 ▲ Females
 — 1991-2016 APC = 0.6¹

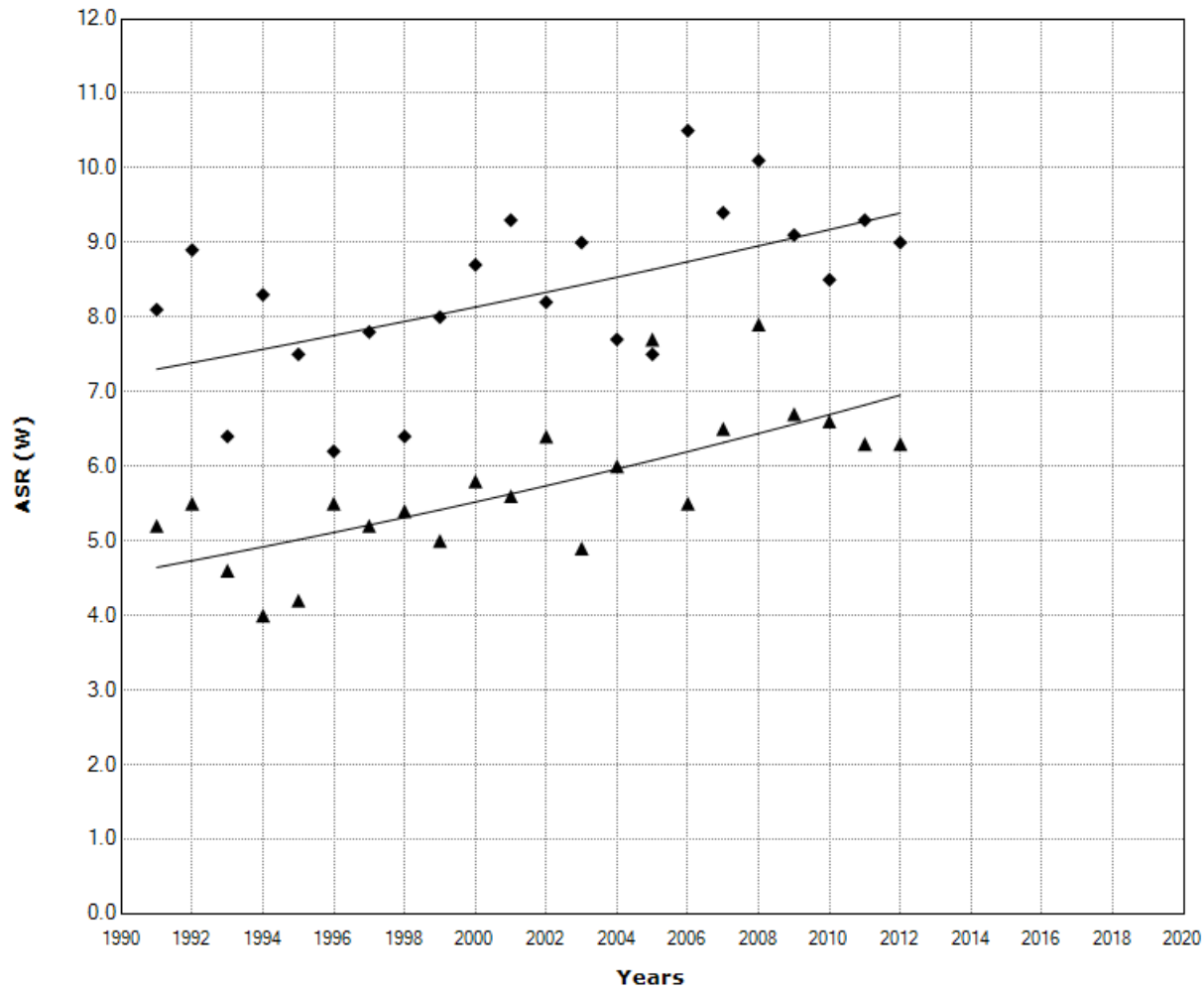
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Slovakia: Males: 1 Joinpoint versus Females: 1 Joinpoint



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Rejected Coincidence.

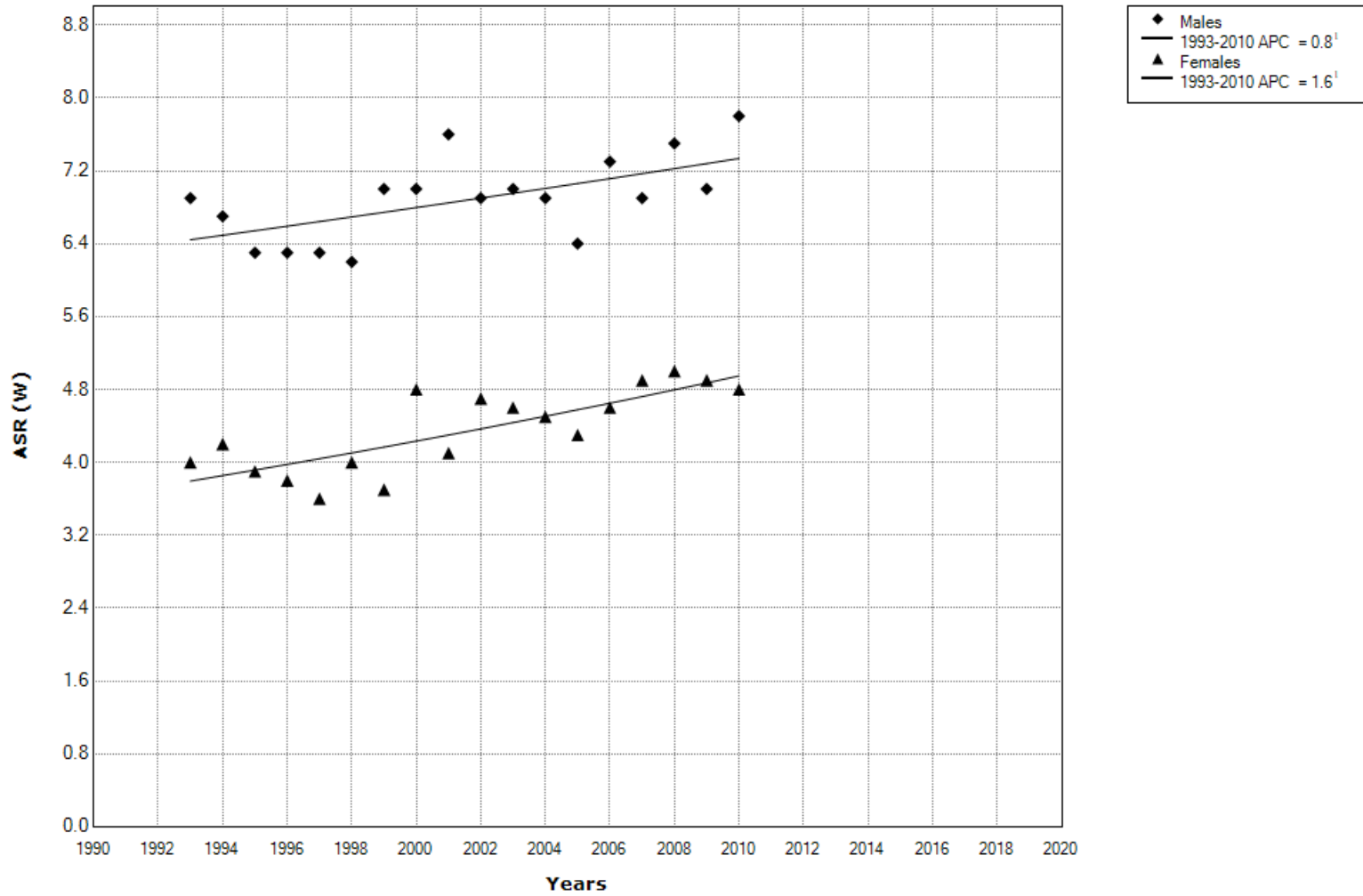
Slovenia: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1991-2012 APC = 1.2¹
- ▲ Females
- 1991-2012 APC = 1.9¹

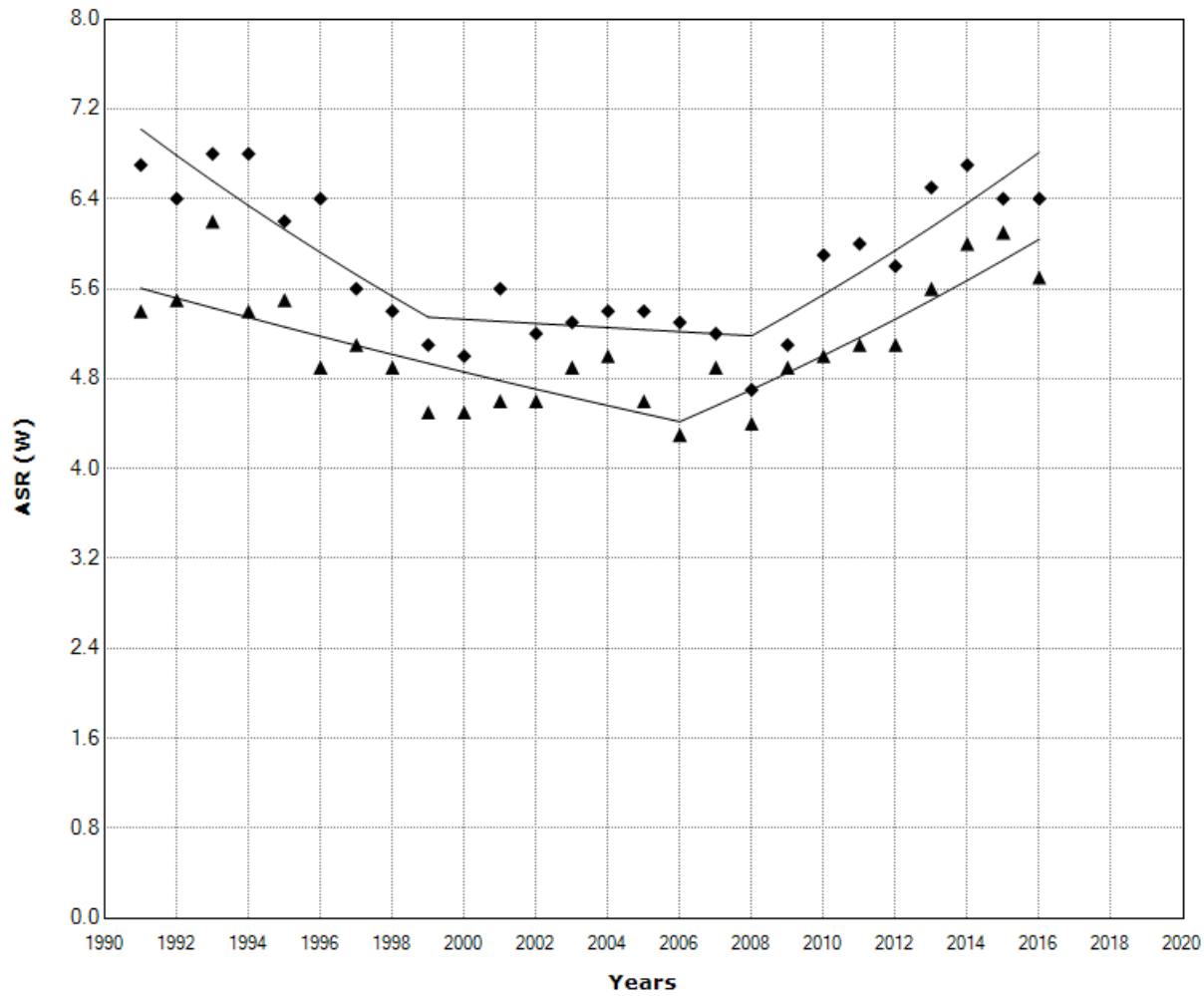
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Spain: Males: 0 Joinpoints versus Females: 0 Joinpoints



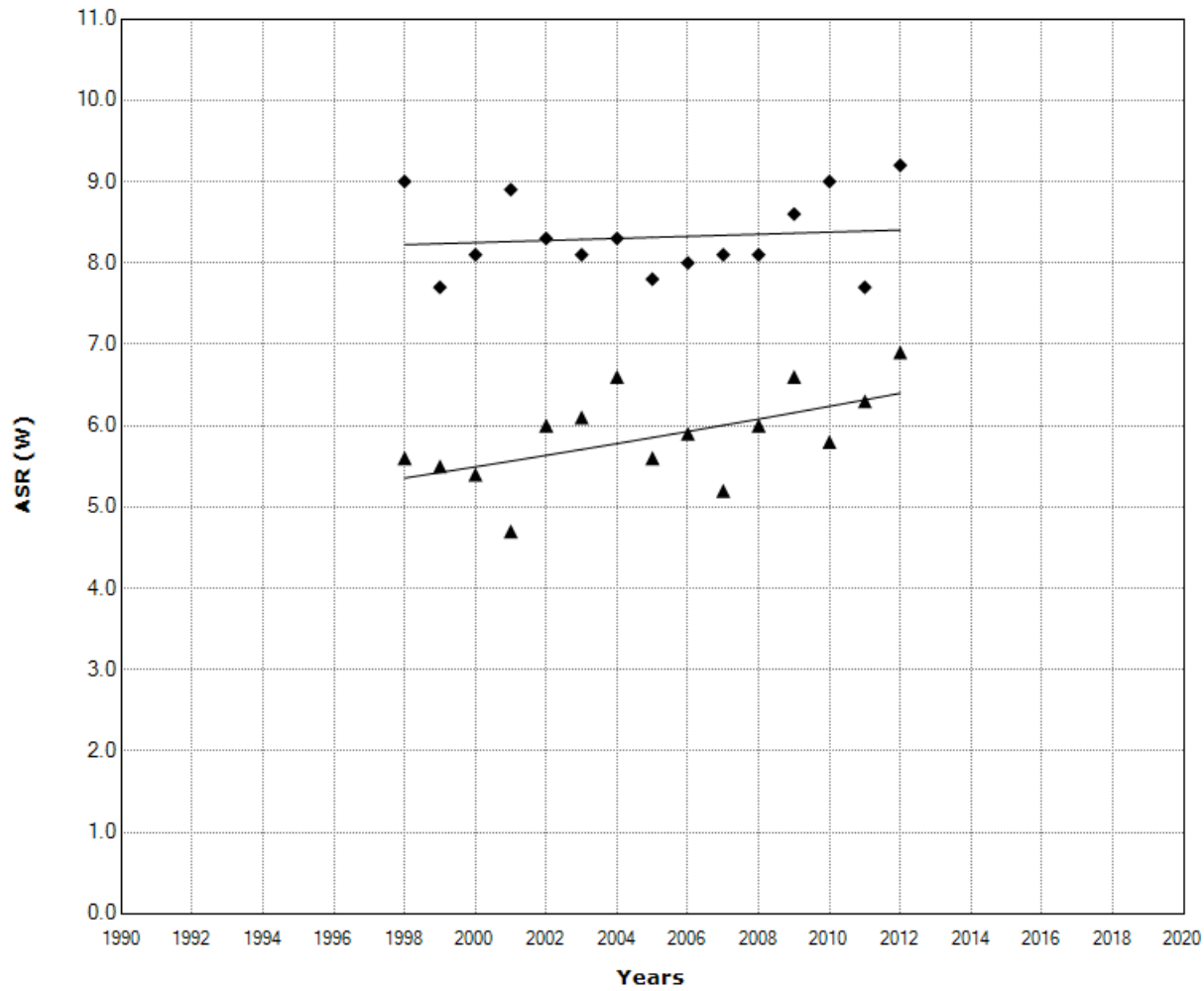
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Sweden: Males: 2 Joinpoints versus Females: 1 Joinpoint



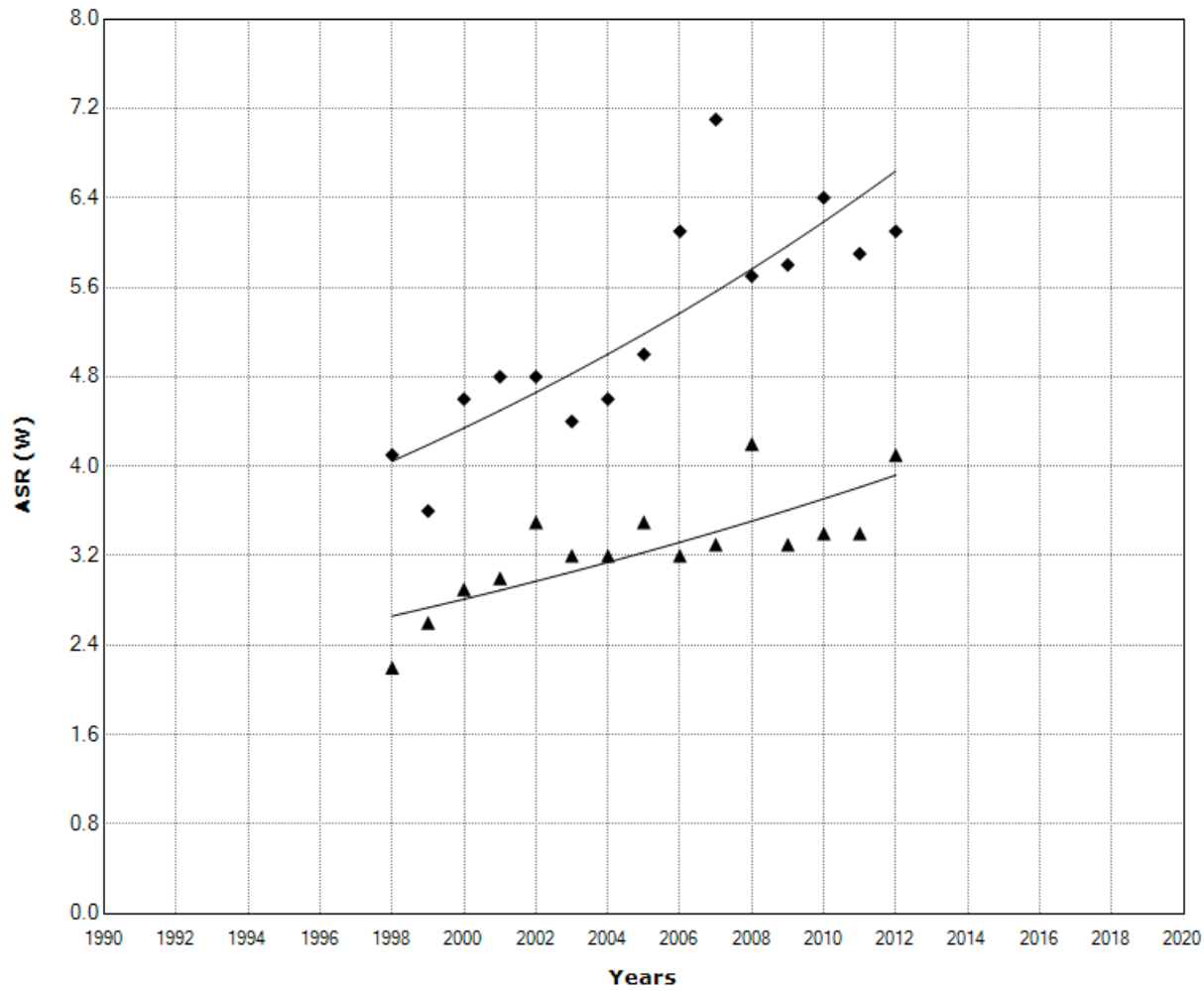
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 2 Joinpoints, Females - 1 Joinpoint. Rejected Coincidence.

Switzerland: Males: 0 Joinpoints versus Females: 0 Joinpoints



[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

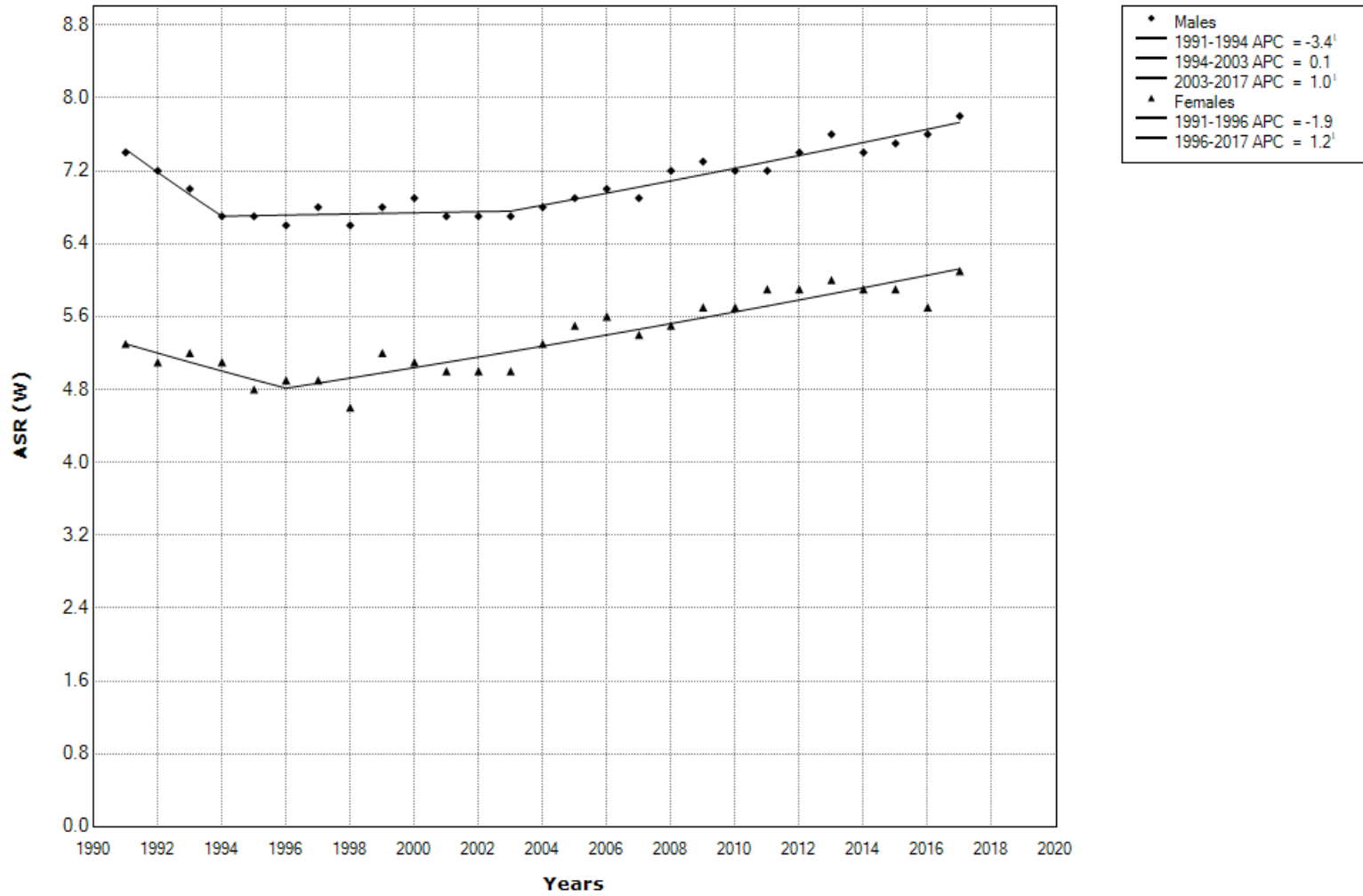
Turkey: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1998-2012 APC = 3.6[†]
- ▲ Females
- 1998-2012 APC = 2.8[†]

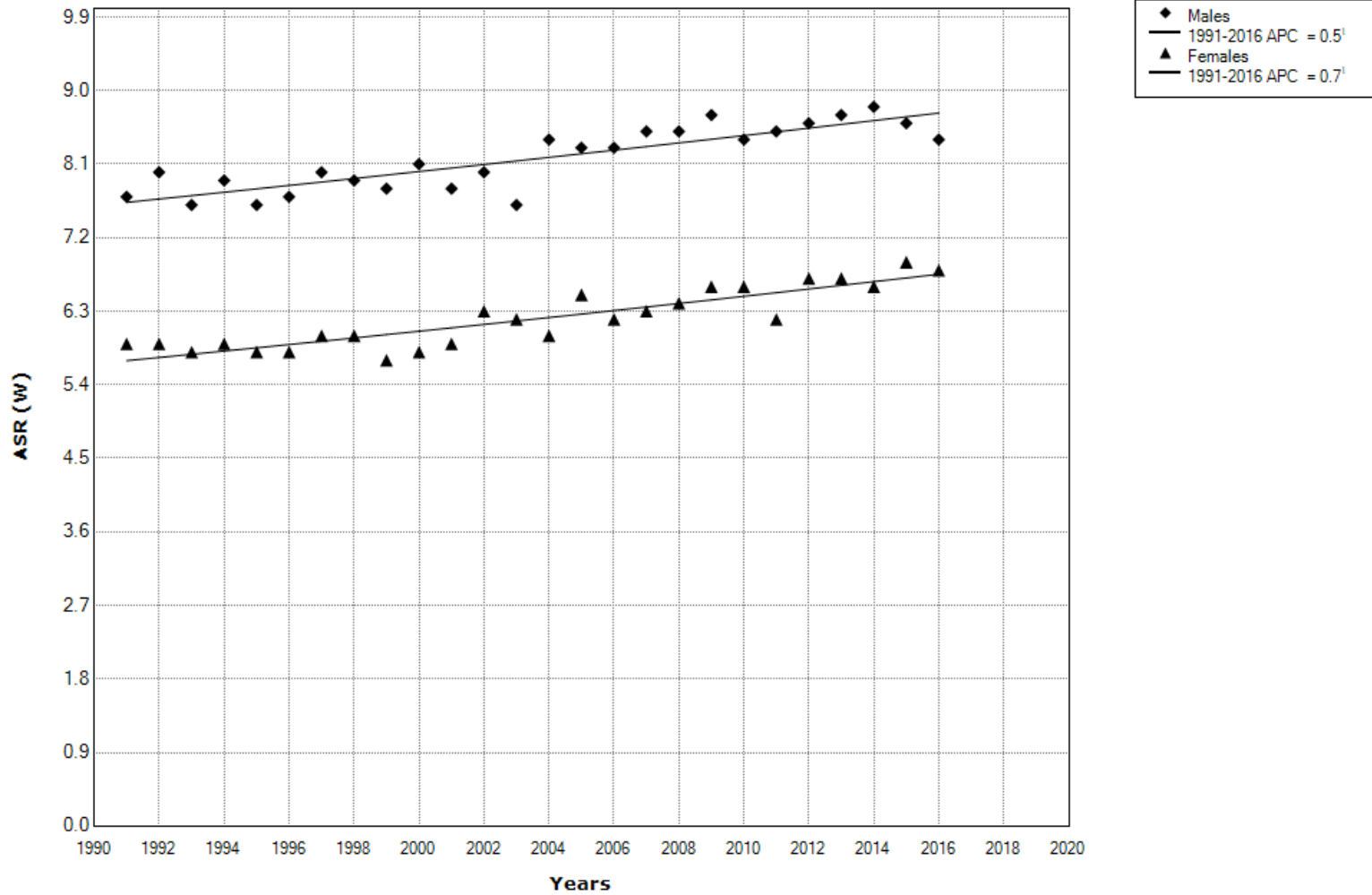
[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

United Kingdom: Males: 2 Joinpoints versus Females: 1 Joinpoint



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 2 Joinpoints, Females - 1 Joinpoint. Rejected Coincidence.

United States of America: Males: 0 Joinpoints versus Females: 0 Joinpoints

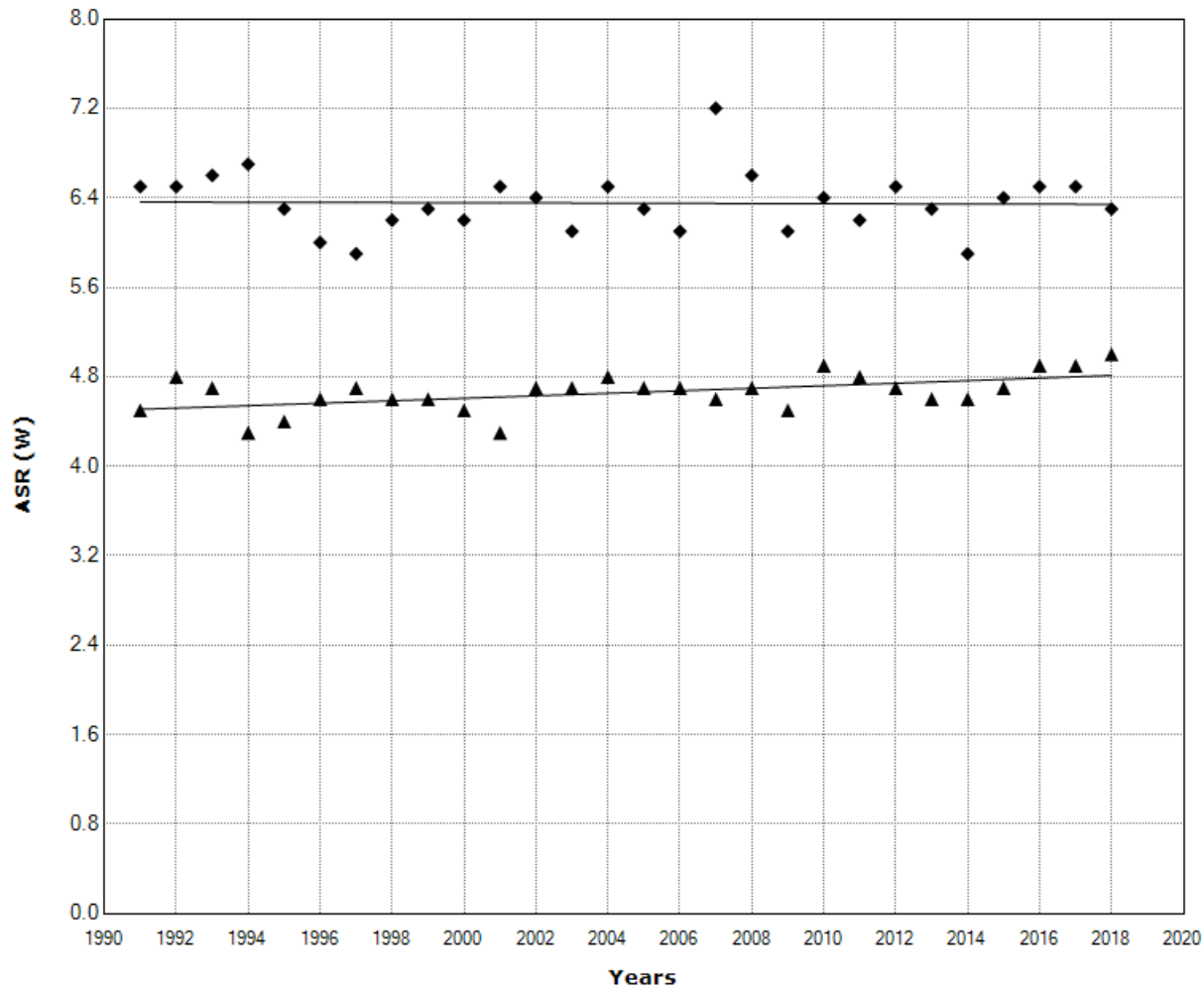


¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level. Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Supplementary Figure 1 Joinpoint analysis for pancreatic cancer incidence trends, by countries and sex, since 1991 (as per data availability). ASR (W): Age Standardized Rate (using World standard population, per 100000).

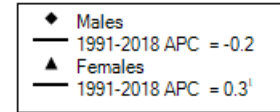
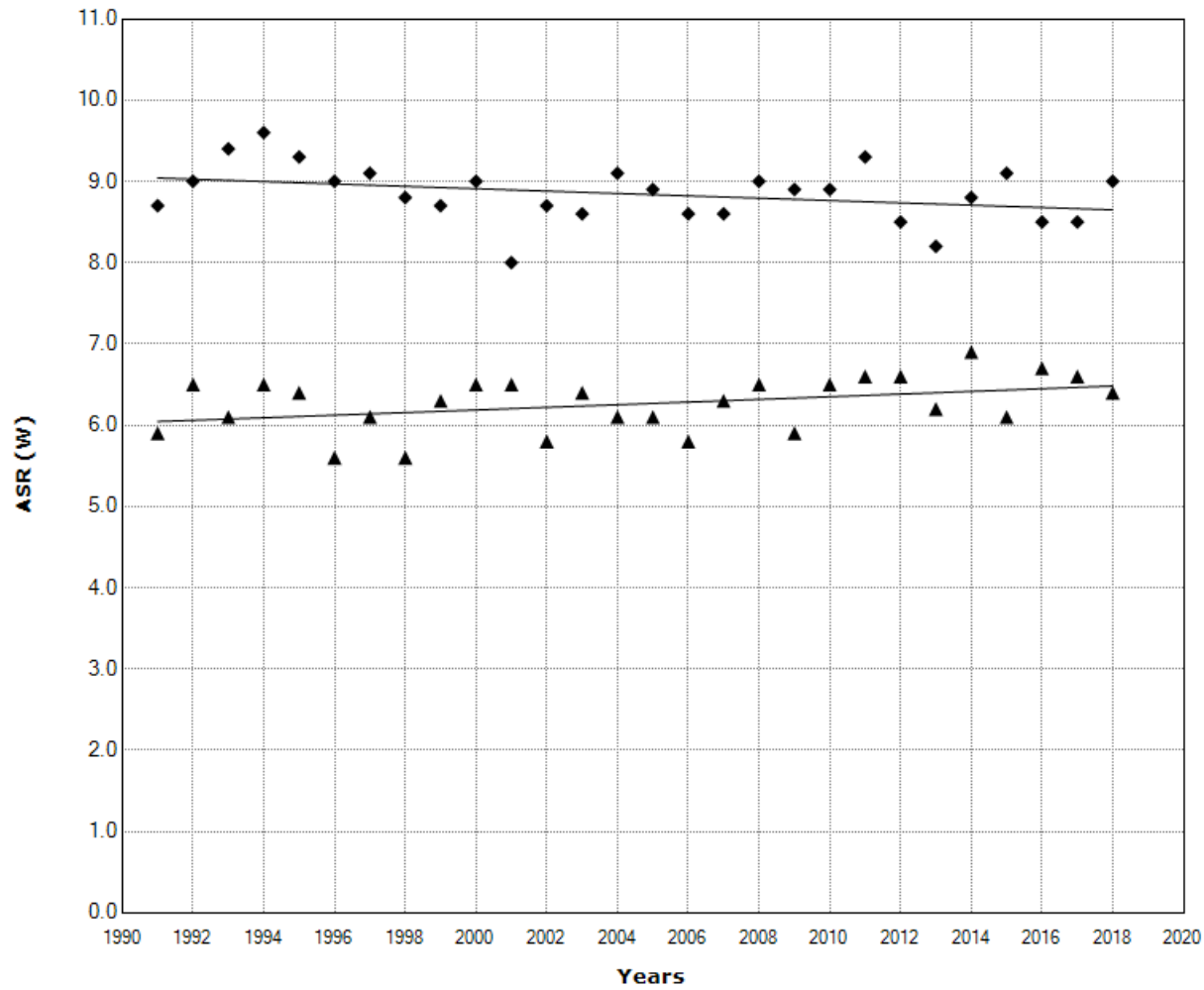
¹Statistically significant trend ($p < 0.05$). Joinpoint results are not shown for incidence in some countries, because there was no data for pancreatic cancer in the whole observed period continuously. For the trend analysis, we presented all incidence data available from 1991 year onwards, provided that there has been data for at least 15 years in a row continuously.

Australia: Males: 0 Joinpoints versus Females: 0 Joinpoints



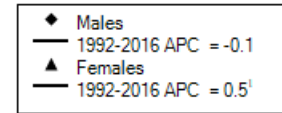
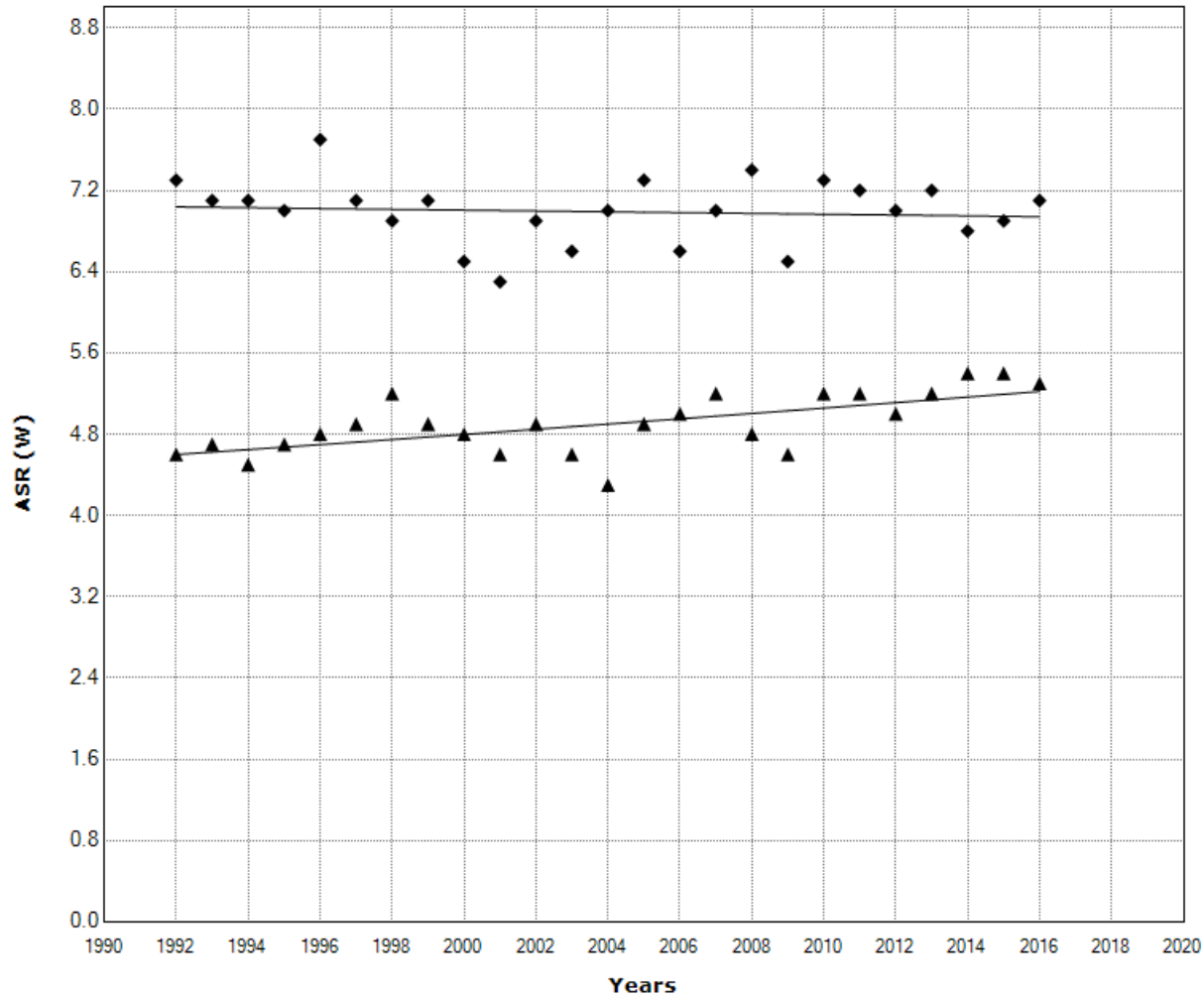
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Austria: Males: 0 Joinpoints versus Females: 0 Joinpoints



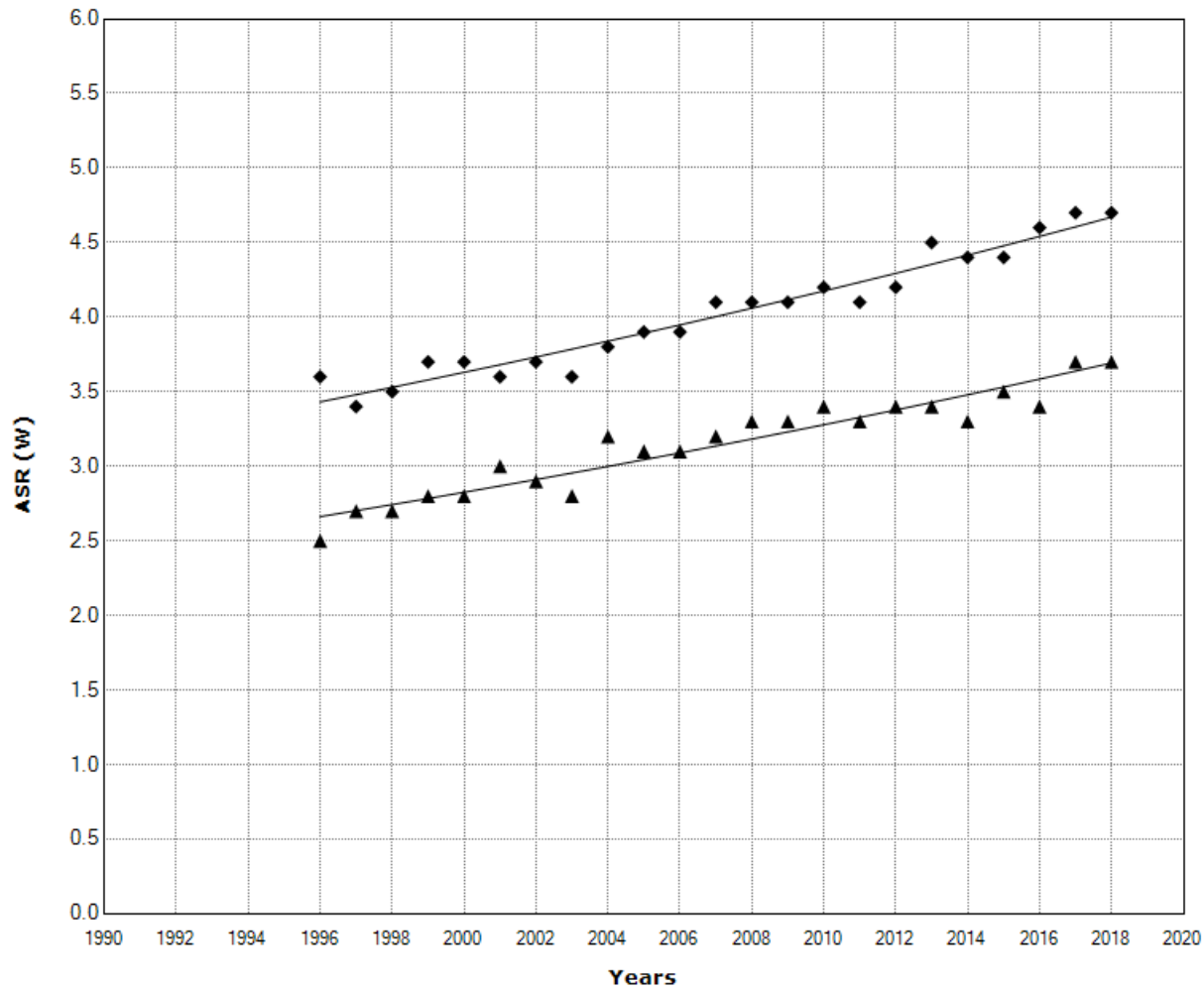
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Belgium: Males: 0 Joinpoints versus Females: 0 Joinpoints



[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

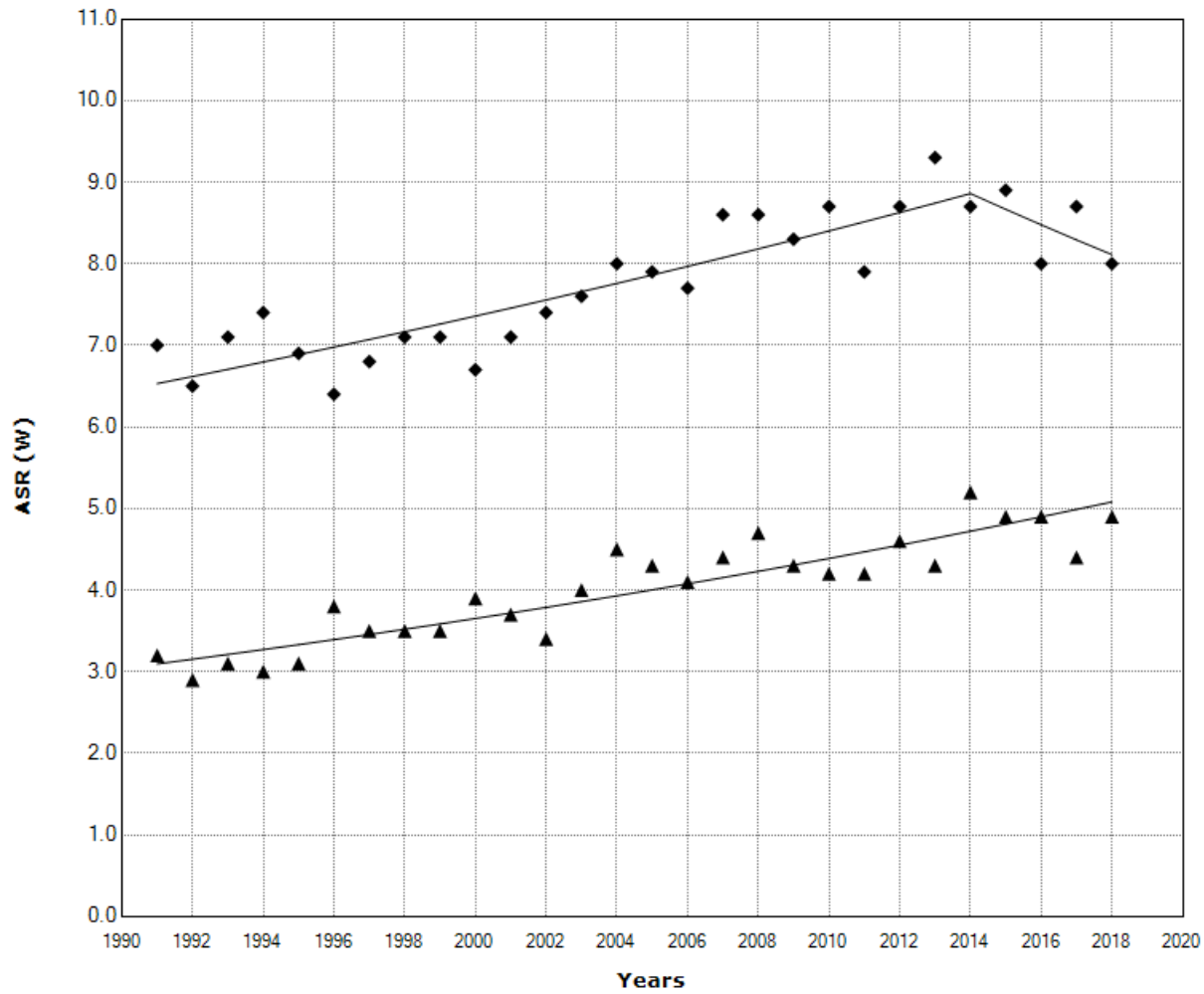
Brazil: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1996-2018 APC = 1.4¹
- ▲ Females
- 1996-2018 APC = 1.5¹

¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

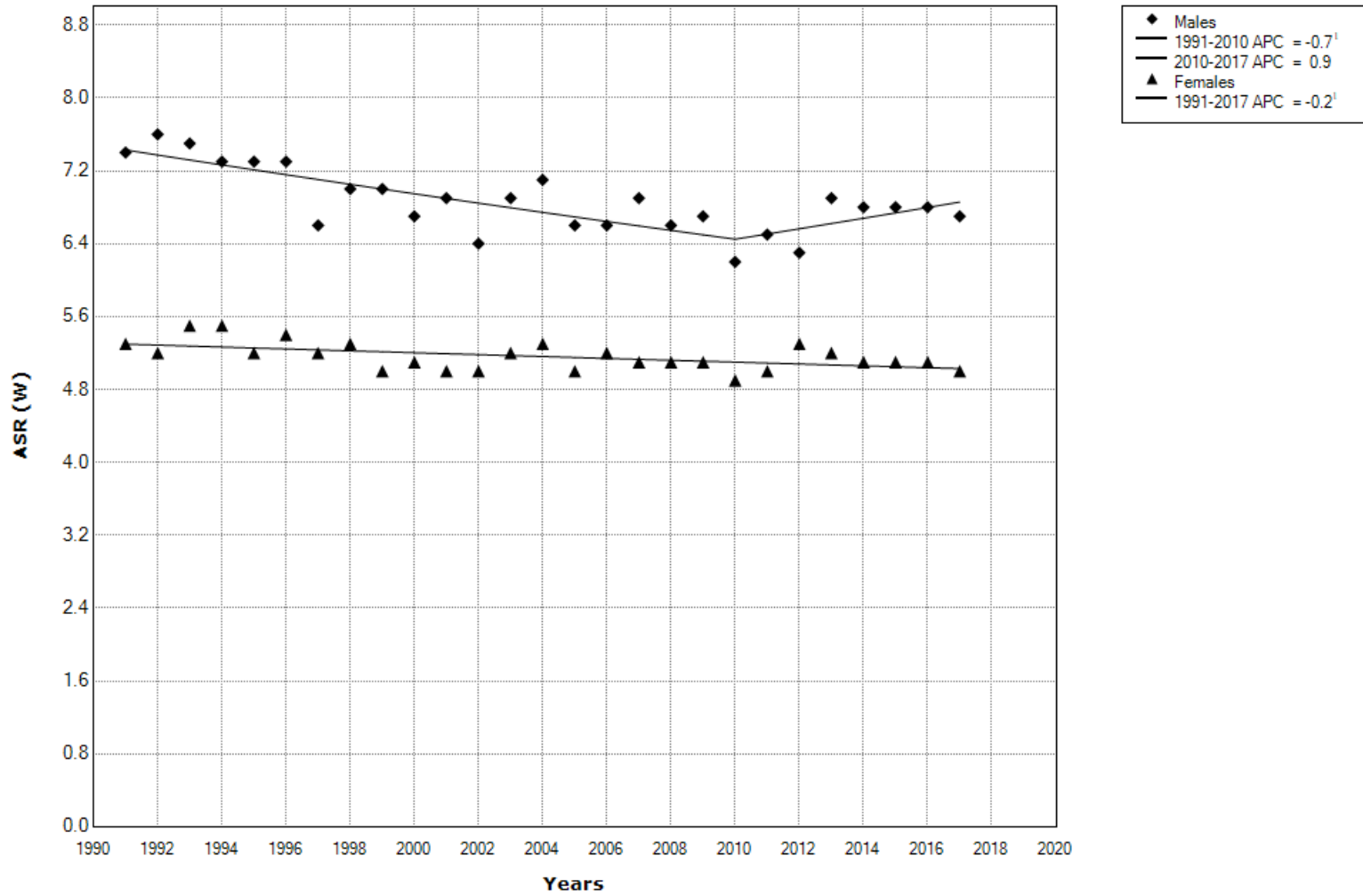
Bulgaria: Males: 1 Joinpoint versus Females: 0 Joinpoints



- ◆ Males
- 1991-2014 APC = 1.3¹
- 2014-2018 APC = -2.2
- ▲ Females
- 1991-2018 APC = 1.9¹

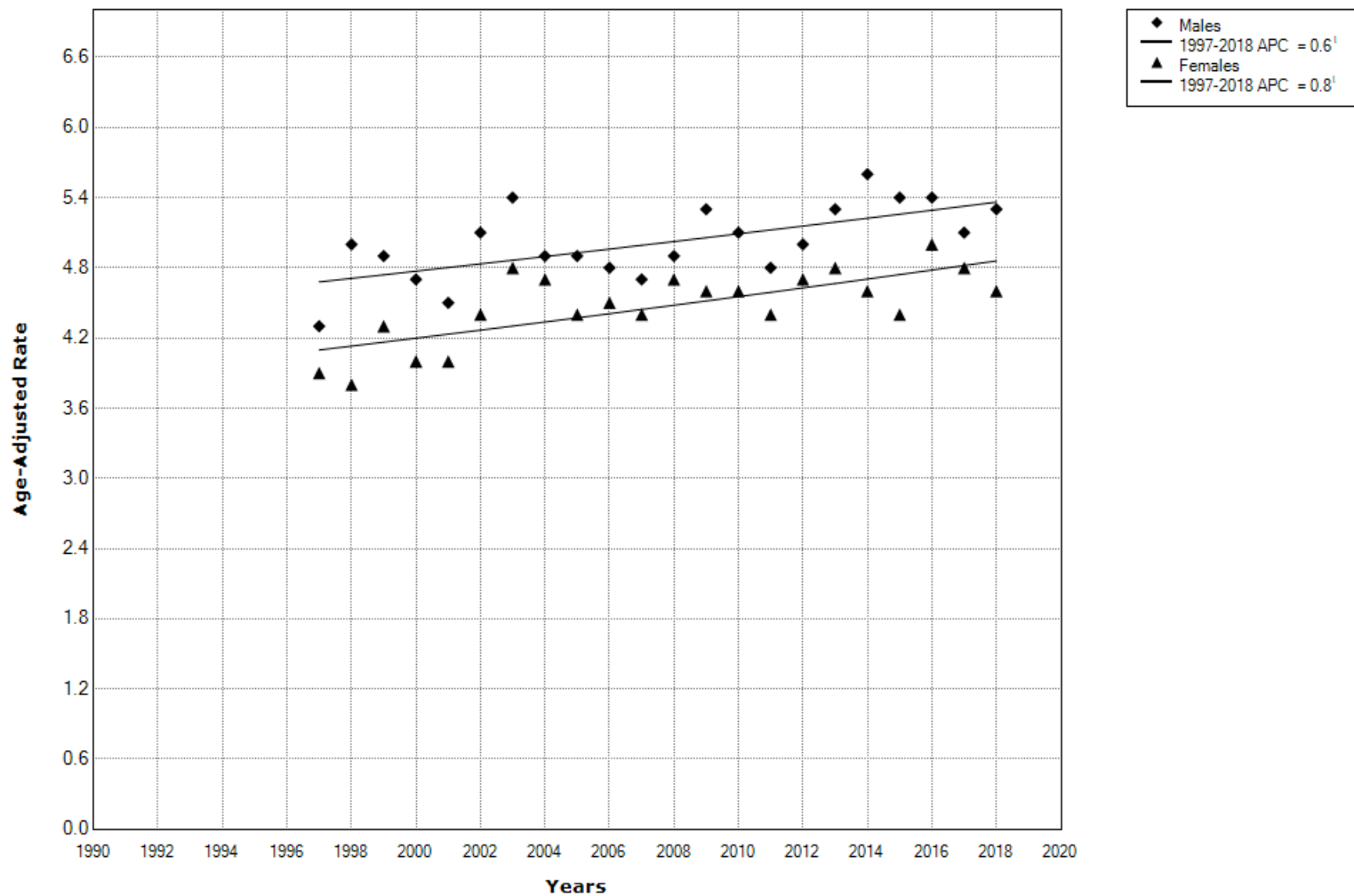
¹ Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

Canada: Males: 1 Joinpoint versus Females: 0 Joinpoints



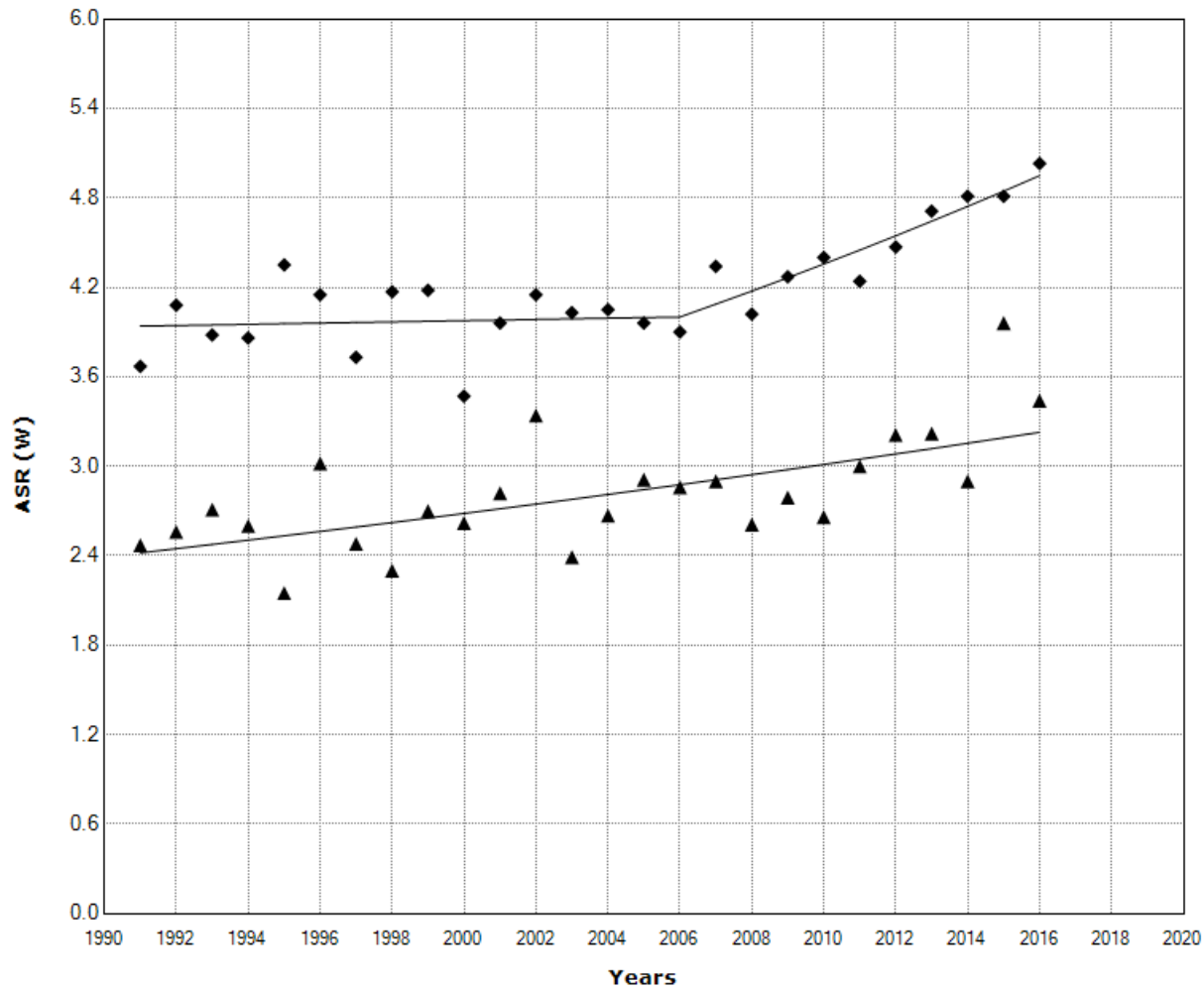
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

Chile: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

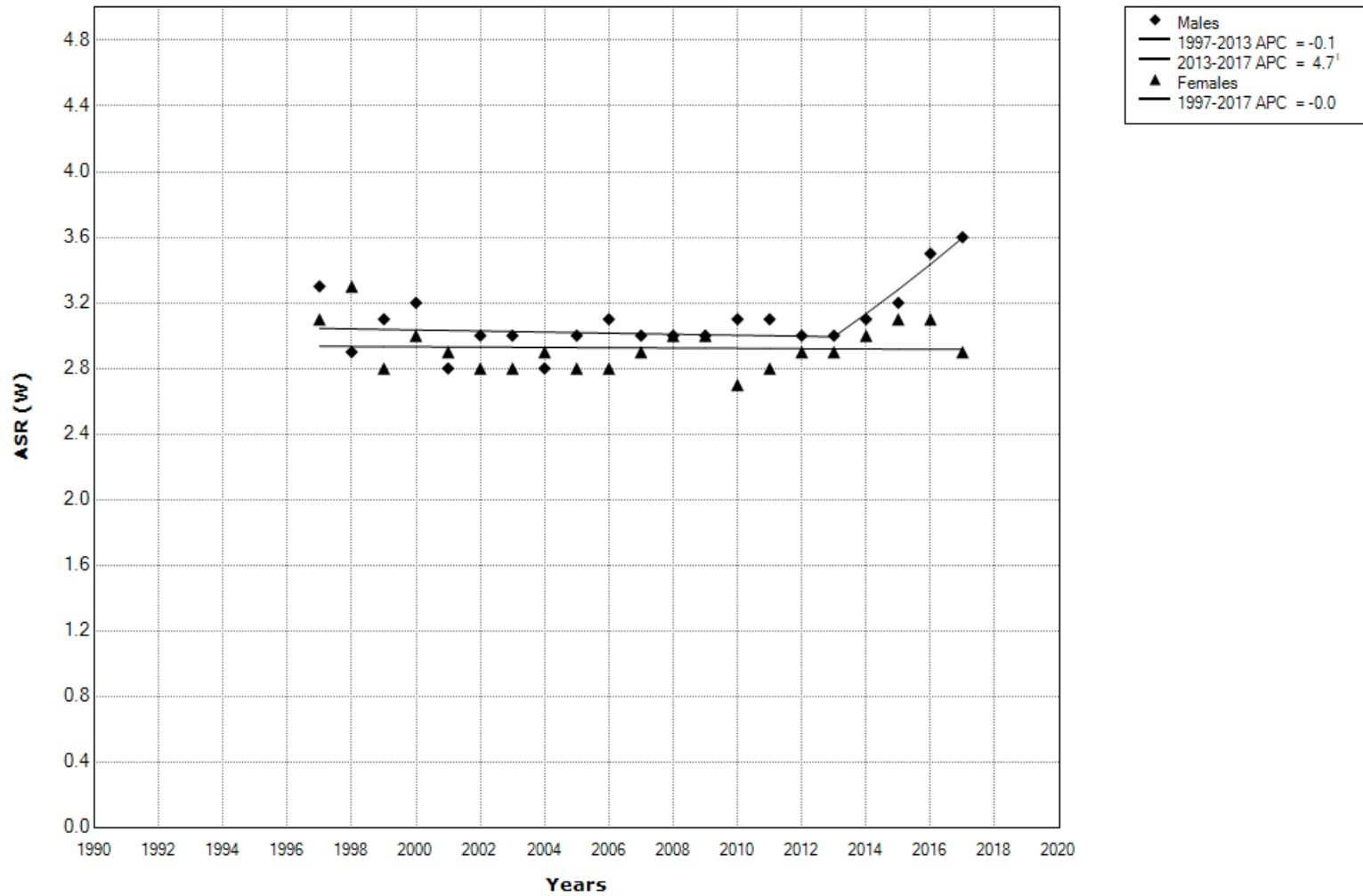
China: Males: 1 Joinpoint versus Females: 0 Joinpoints



- ◆ Males
- 1991-2006 APC = 0.1
- 2006-2016 APC = 2.1[†]
- ▲ Females
- 1991-2016 APC = 1.2[†]

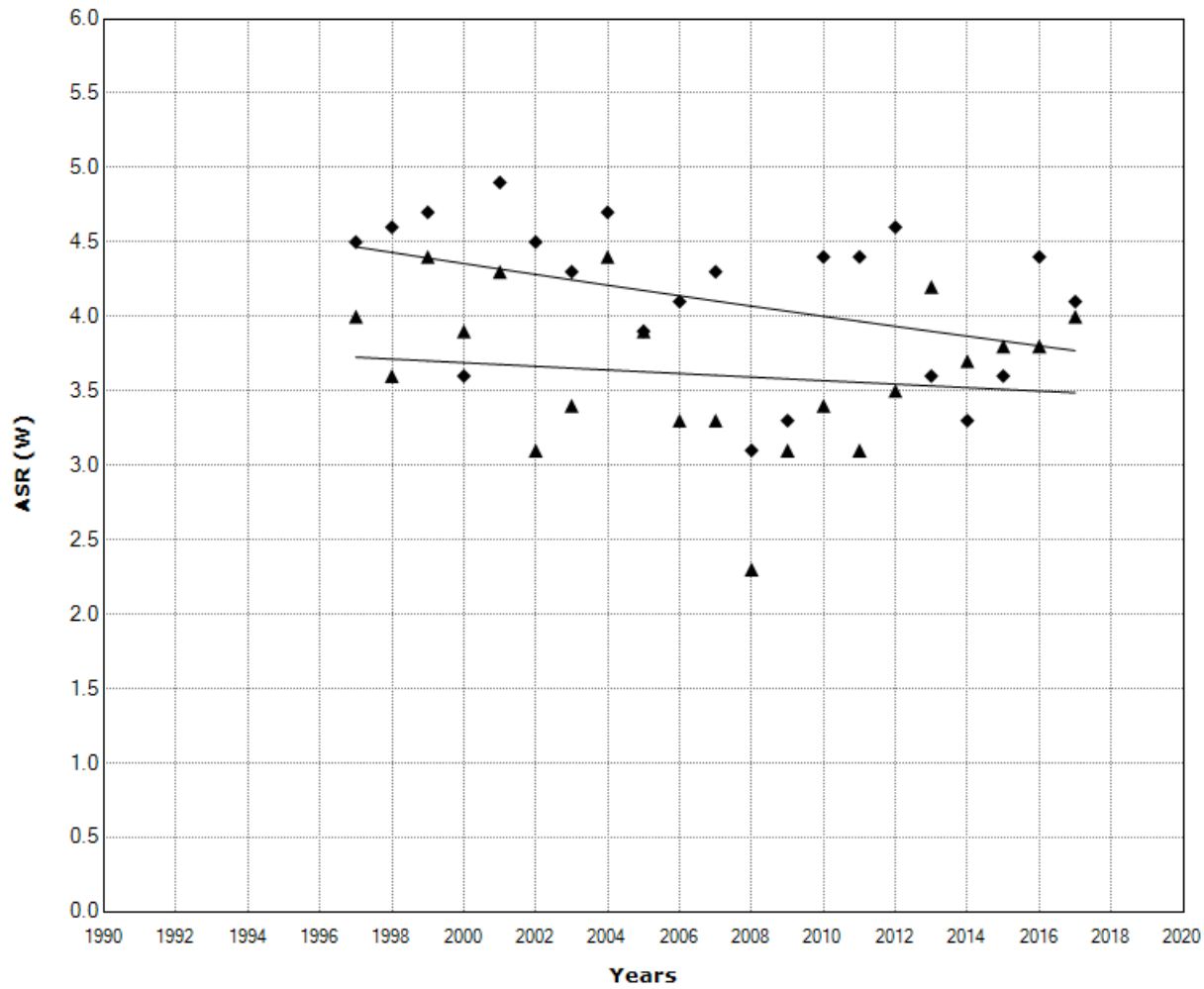
[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

Colombia: Males: 1 Joinpoint versus Females: 0 Joinpoints



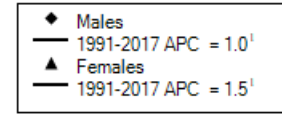
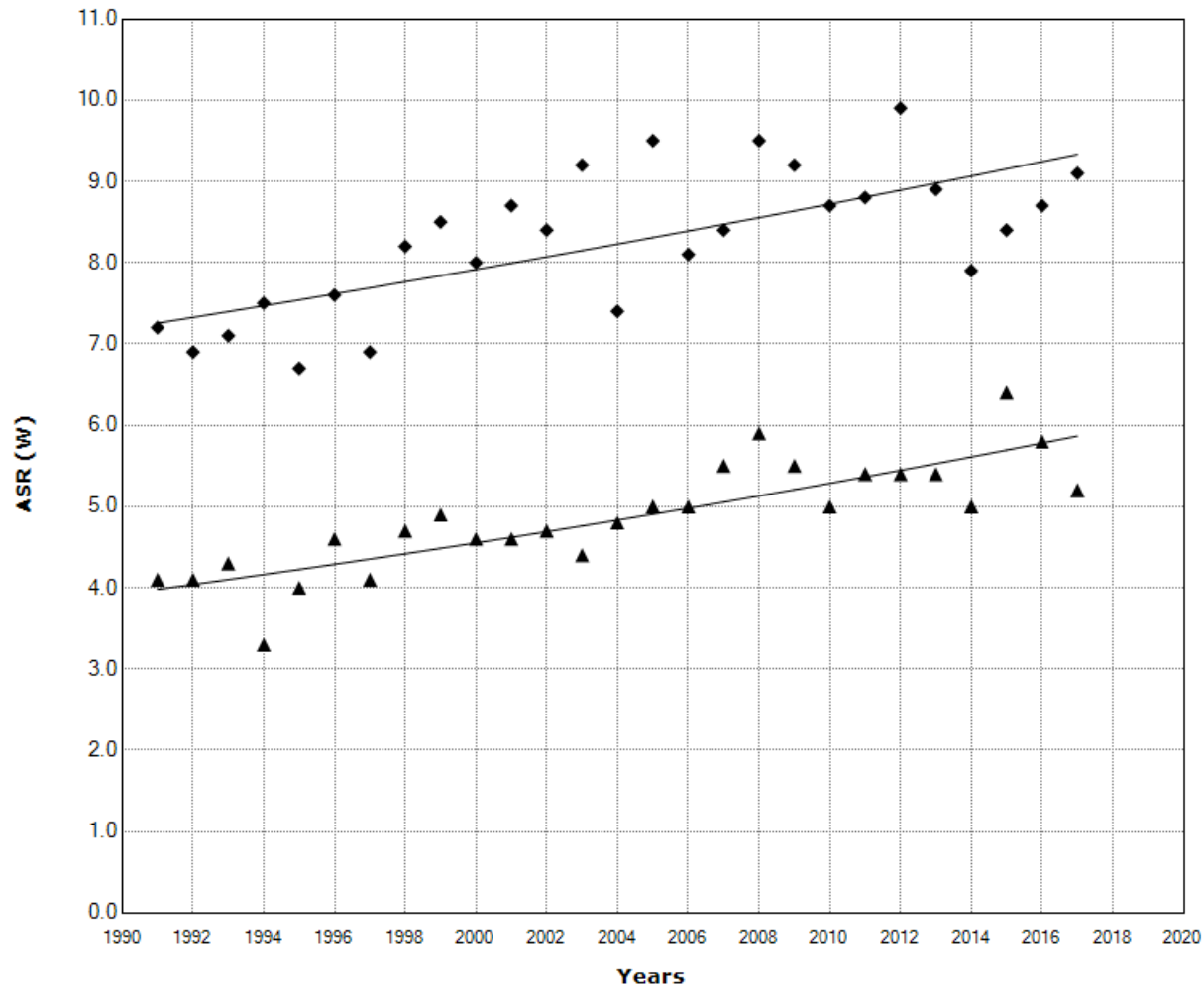
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Failed to reject Coincidence.

Costa Rica: Males: 0 Joinpoints versus Females: 0 Joinpoints



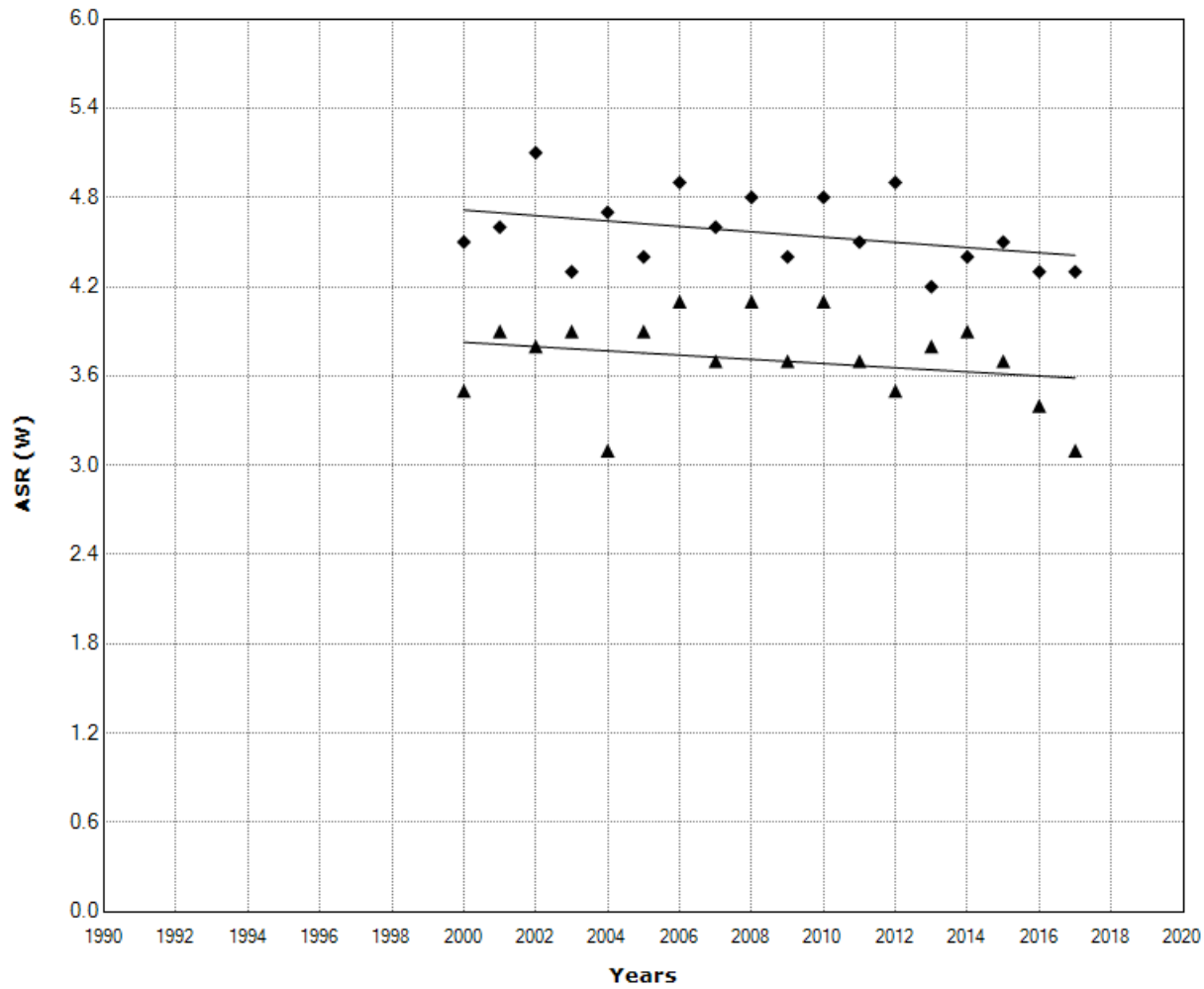
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Croatia: Males: 0 Joinpoints versus Females: 0 Joinpoints



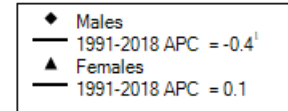
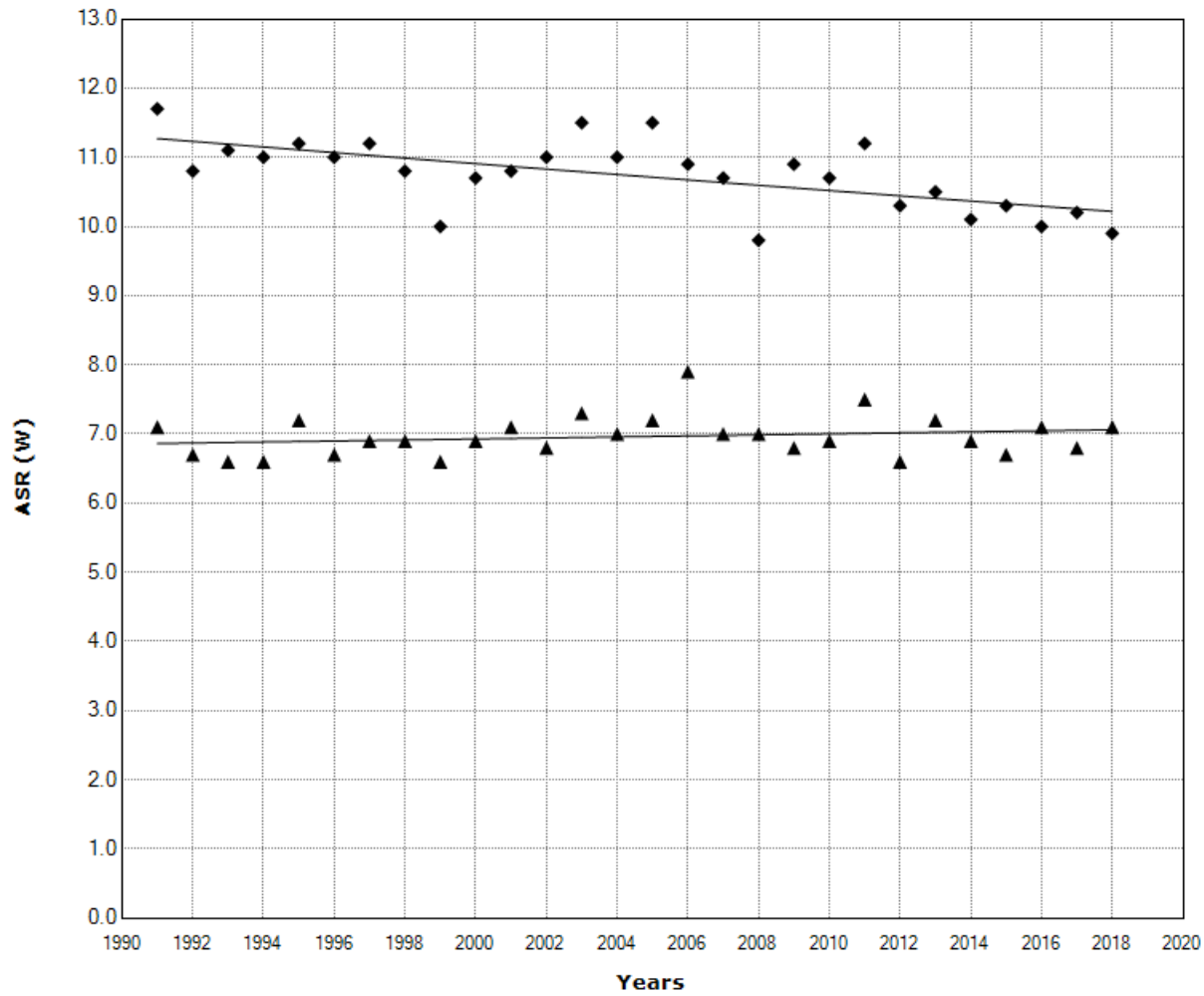
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Cuba: Males: 0 Joinpoints versus Females: 0 Joinpoints



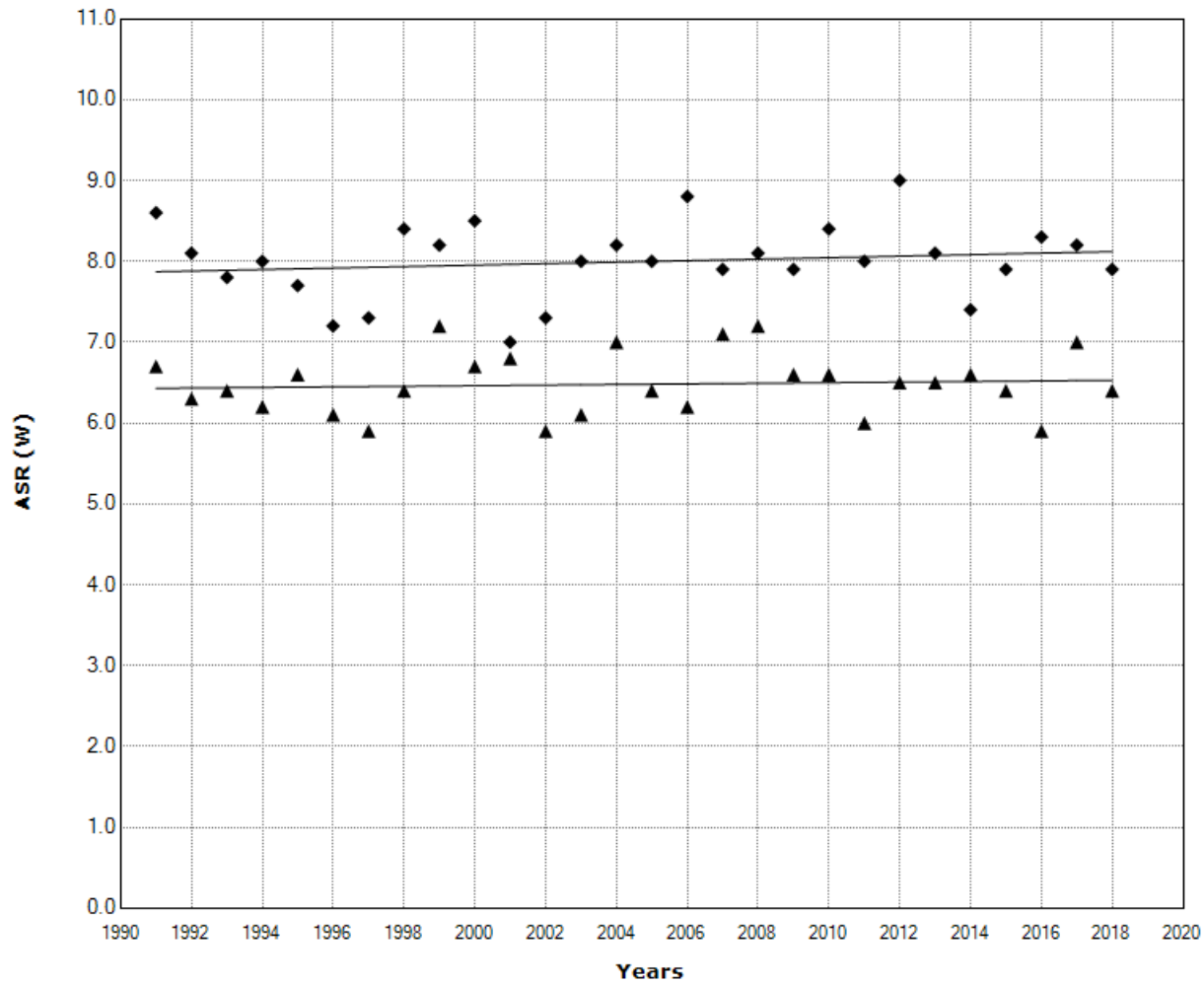
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Czechia: Males: 0 Joinpoints versus Females: 0 Joinpoints



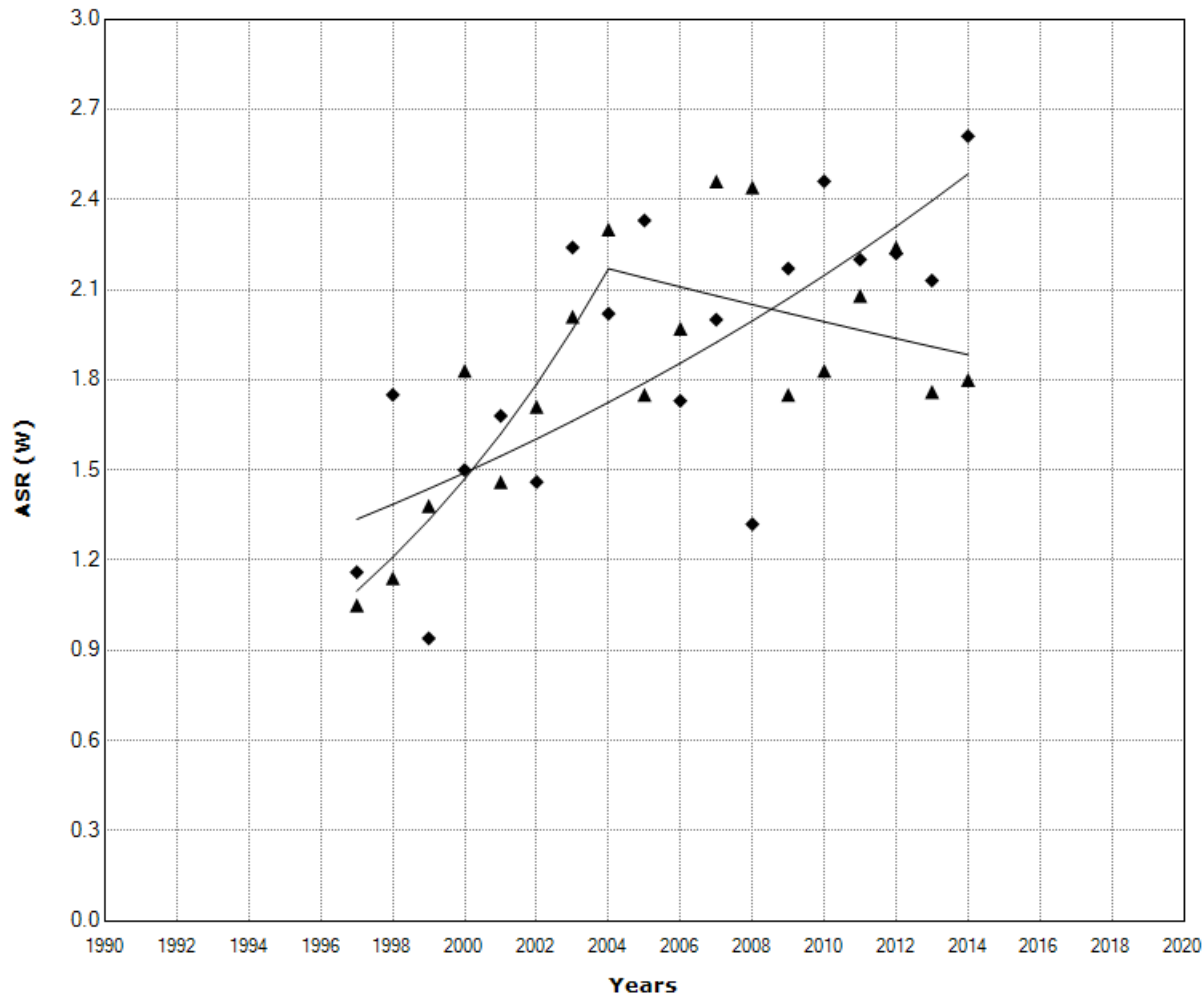
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Denmark: Males: 0 Joinpoints versus Females: 0 Joinpoints



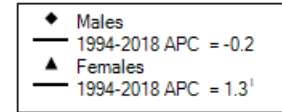
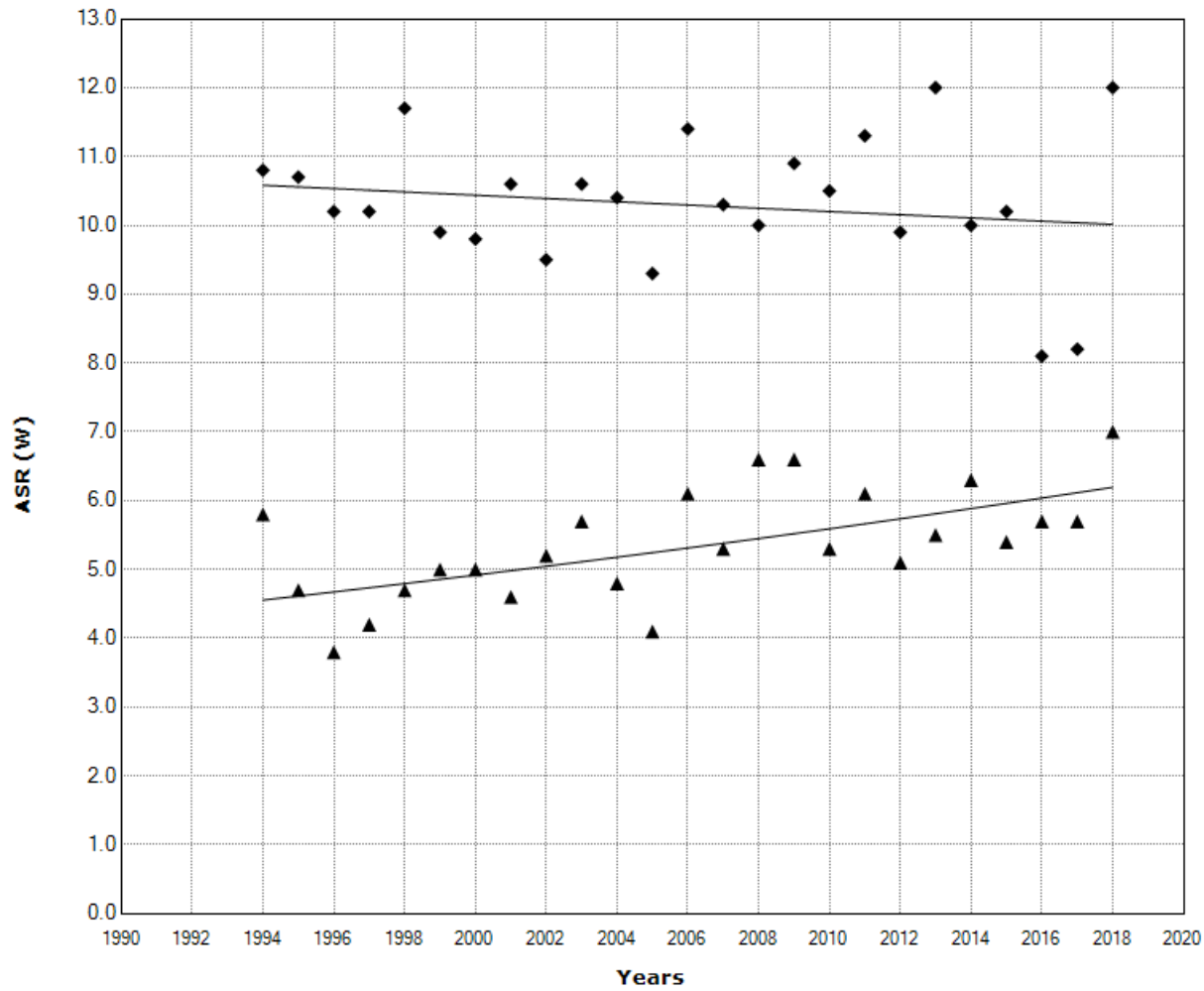
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

El Salvador: Males: 0 Joinpoints versus Females: 1 Joinpoint



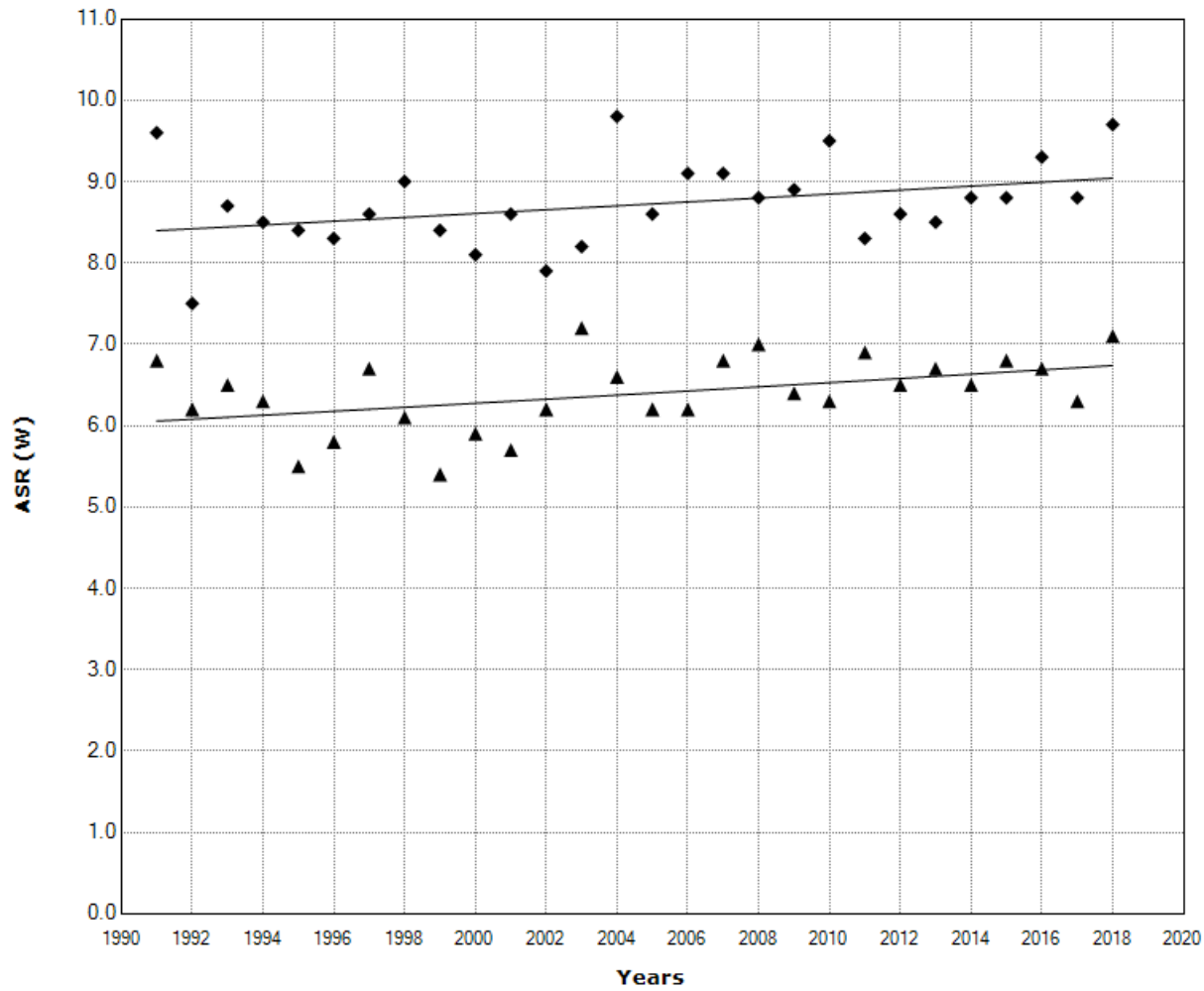
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Failed to reject Coincidence.

Estonia: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

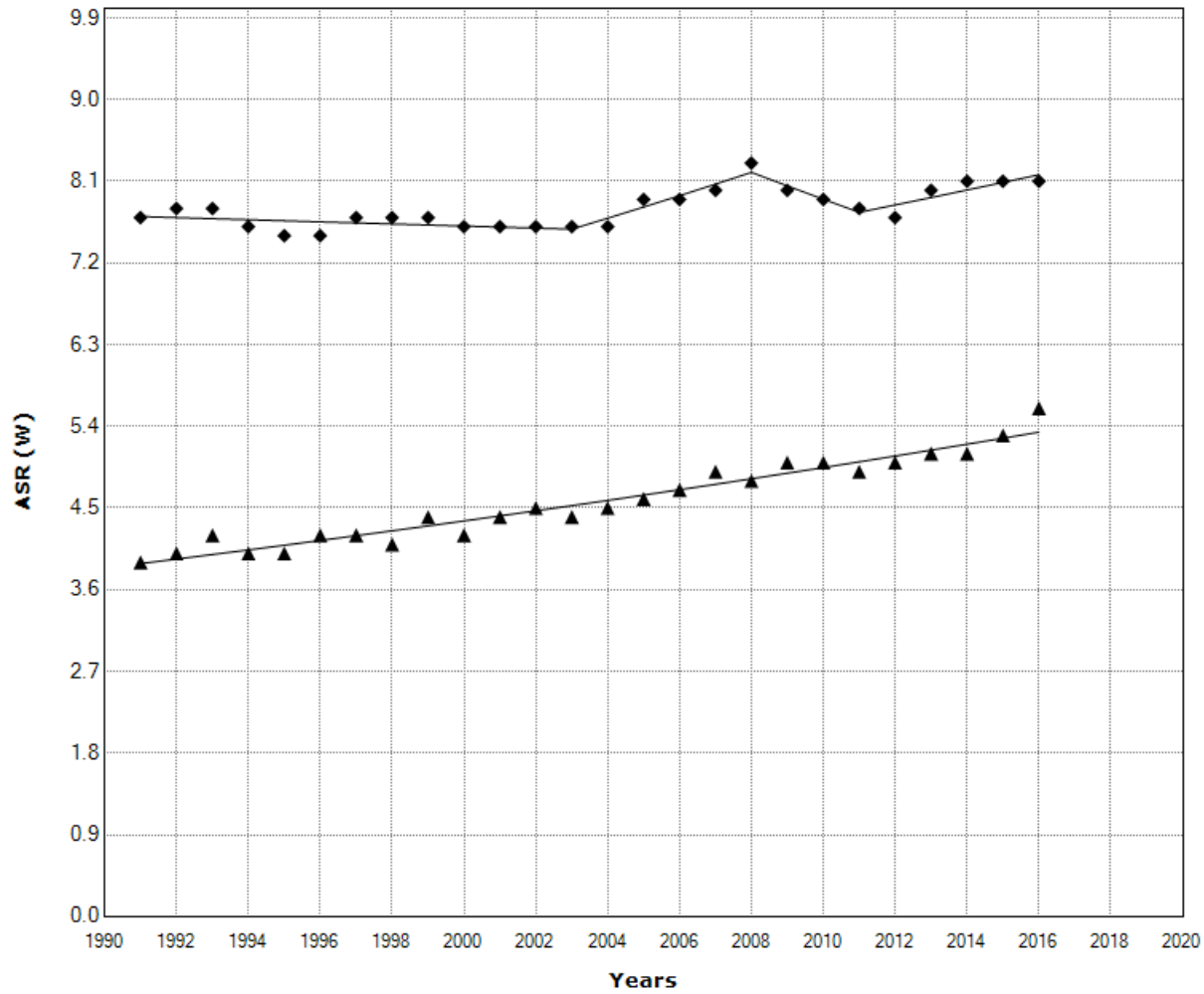
Finland: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1991-2018 APC = 0.3
- ▲ Females
- 1991-2018 APC = 0.4¹

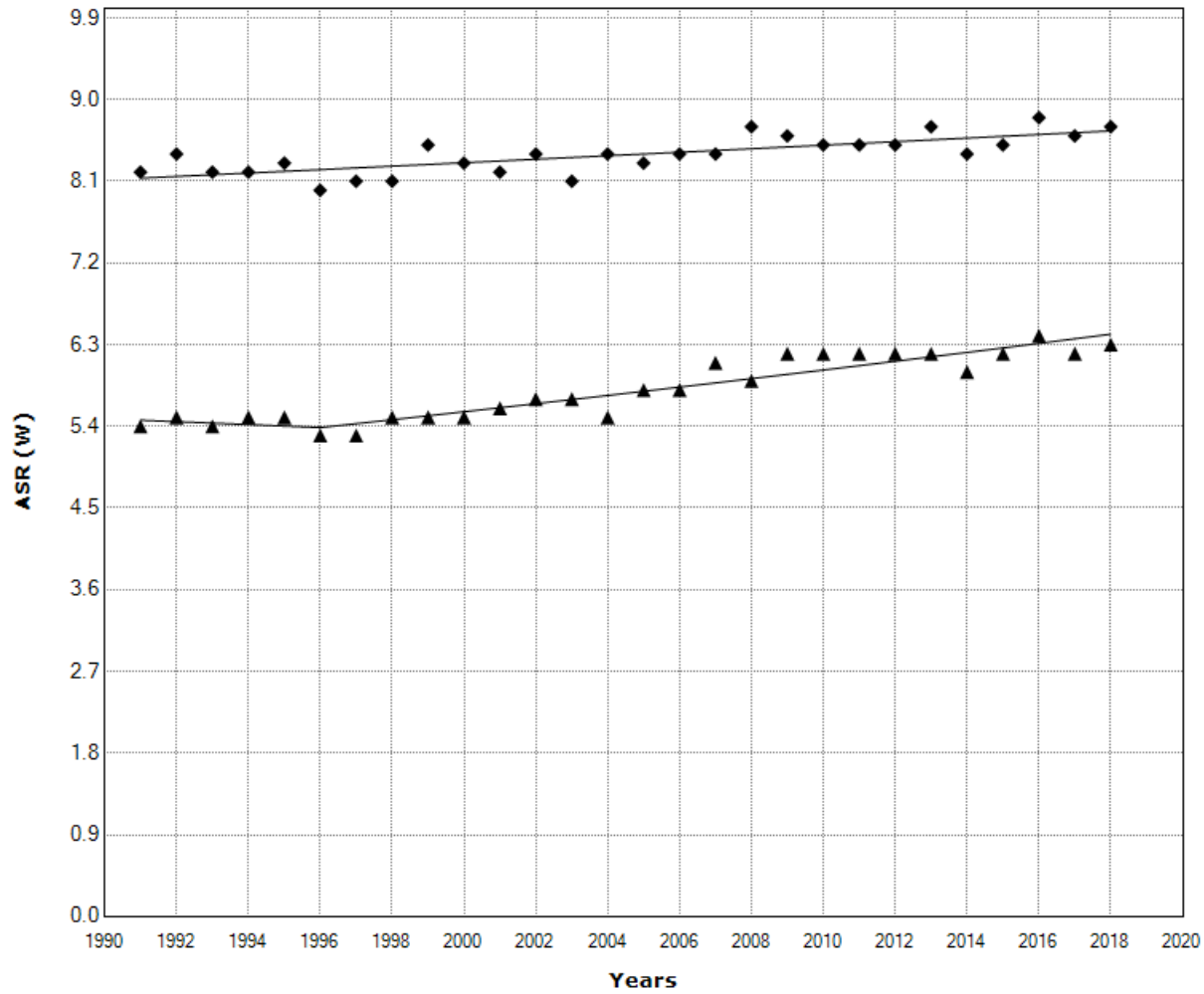
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

France: Males: 3 Joinpoints versus Females: 0 Joinpoints



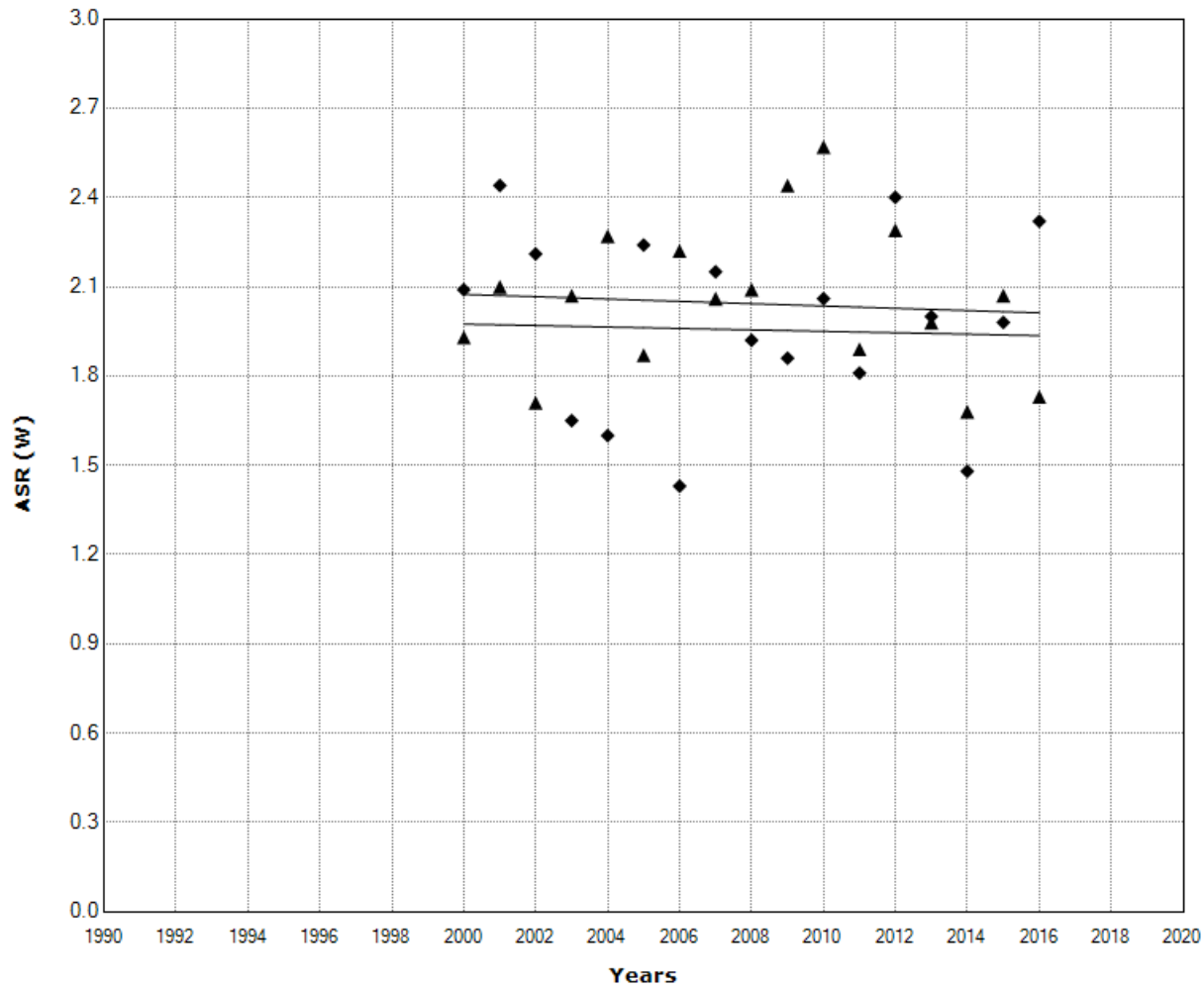
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 3 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Germany: Males: 0 Joinpoints versus Females: 1 Joinpoint



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 1 Joinpoint. Rejected Coincidence.

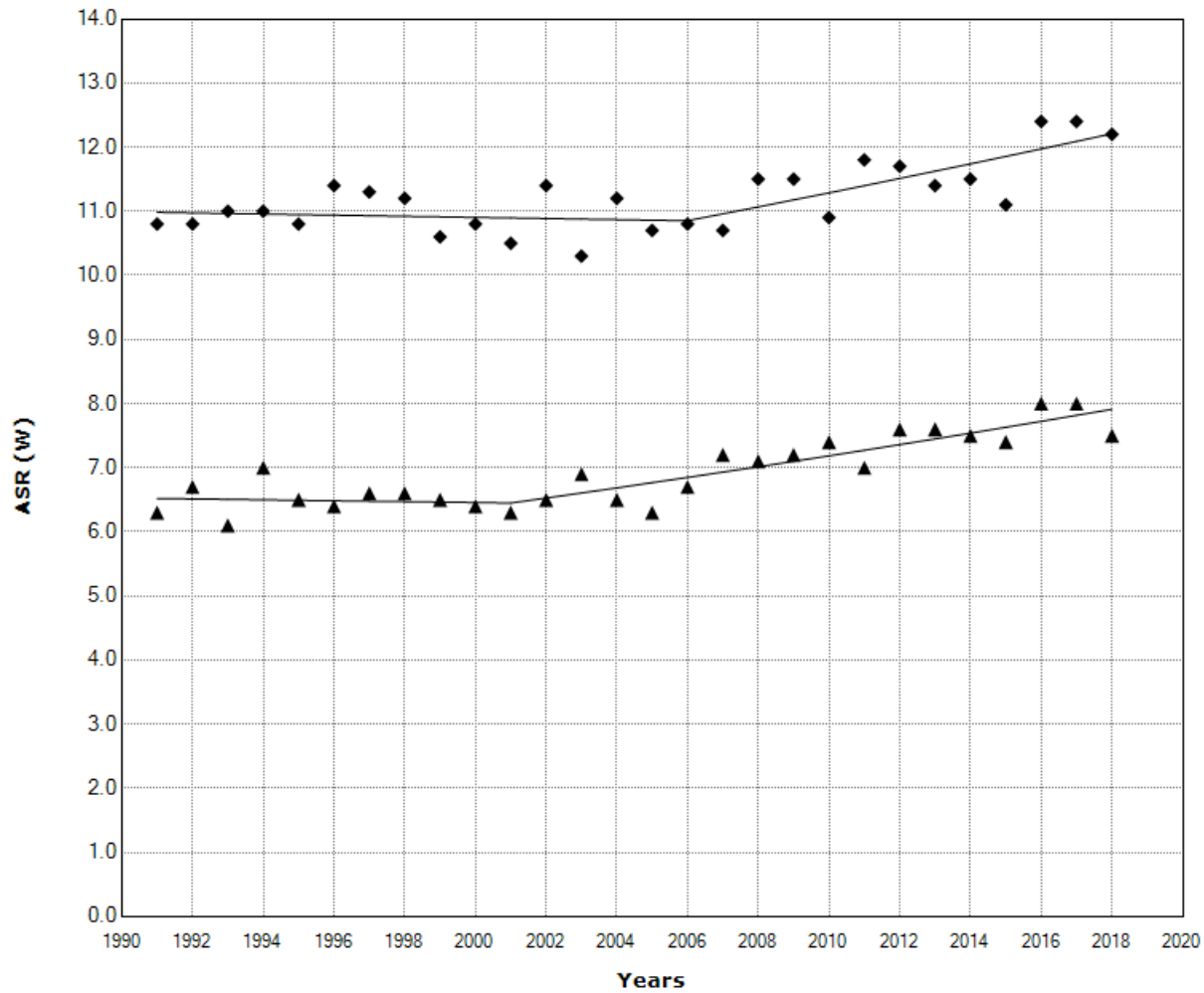
Guatemala: Males: 0 Joinpoints versus Females: 0 Joinpoints



◆ Males
 — 2000-2016 APC = -0.1
 ▲ Females
 - - - 2000-2016 APC = -0.2

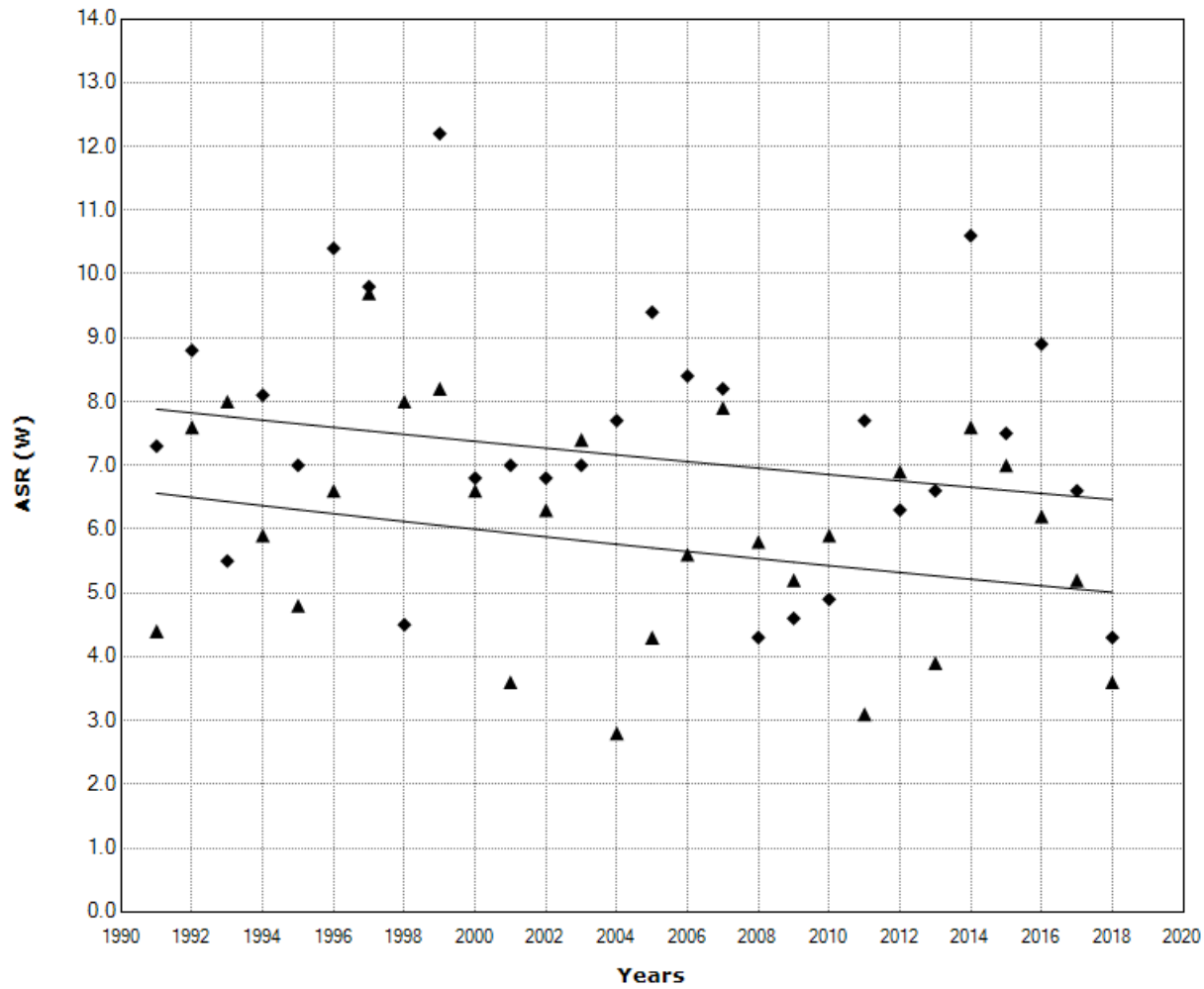
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Failed to reject Coincidence.

Hungary: Males: 1 Joinpoint versus Females: 1 Joinpoint



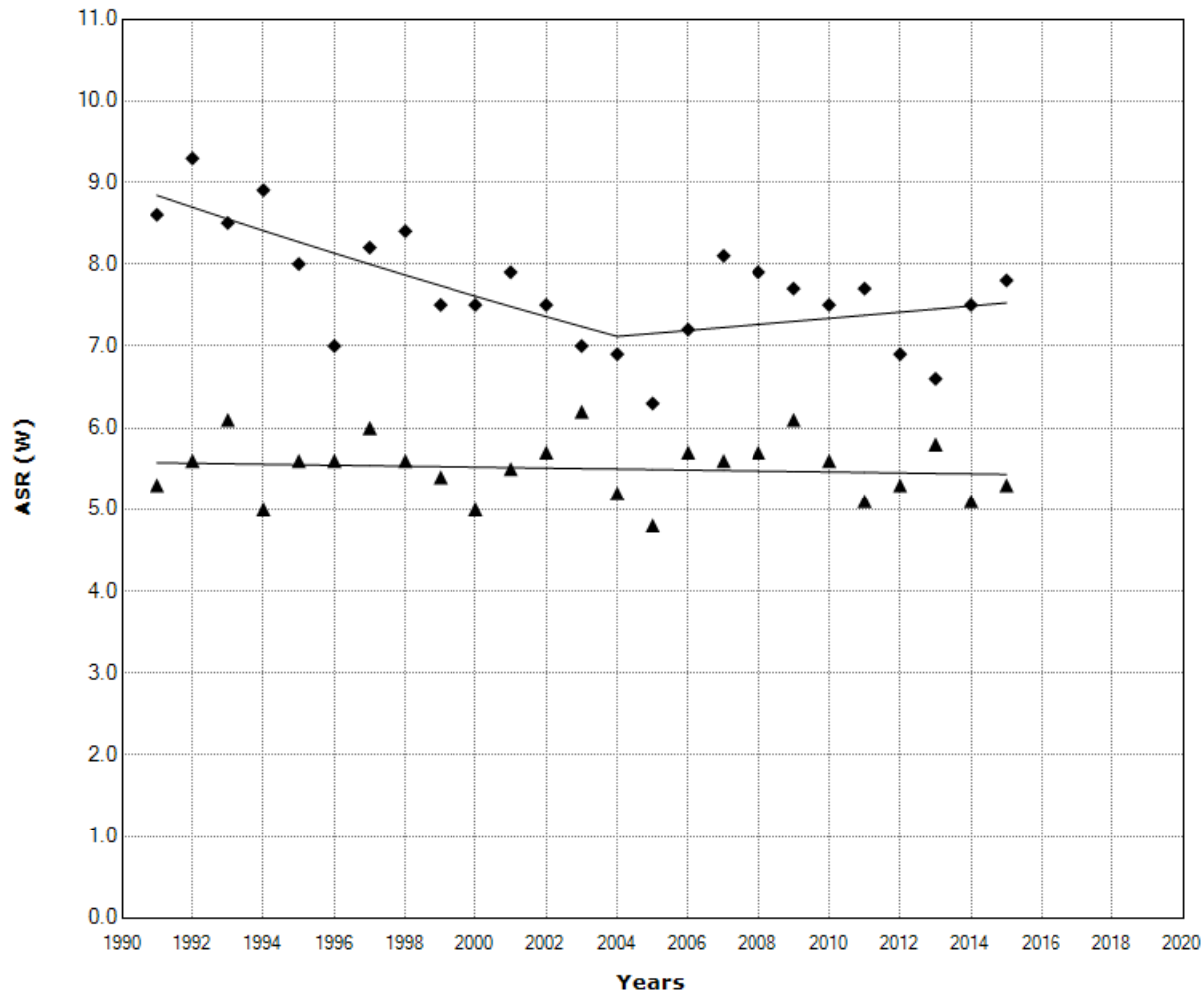
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Rejected Coincidence.

Iceland: Males: 0 Joinpoints versus Females: 0 Joinpoints



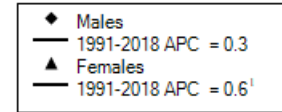
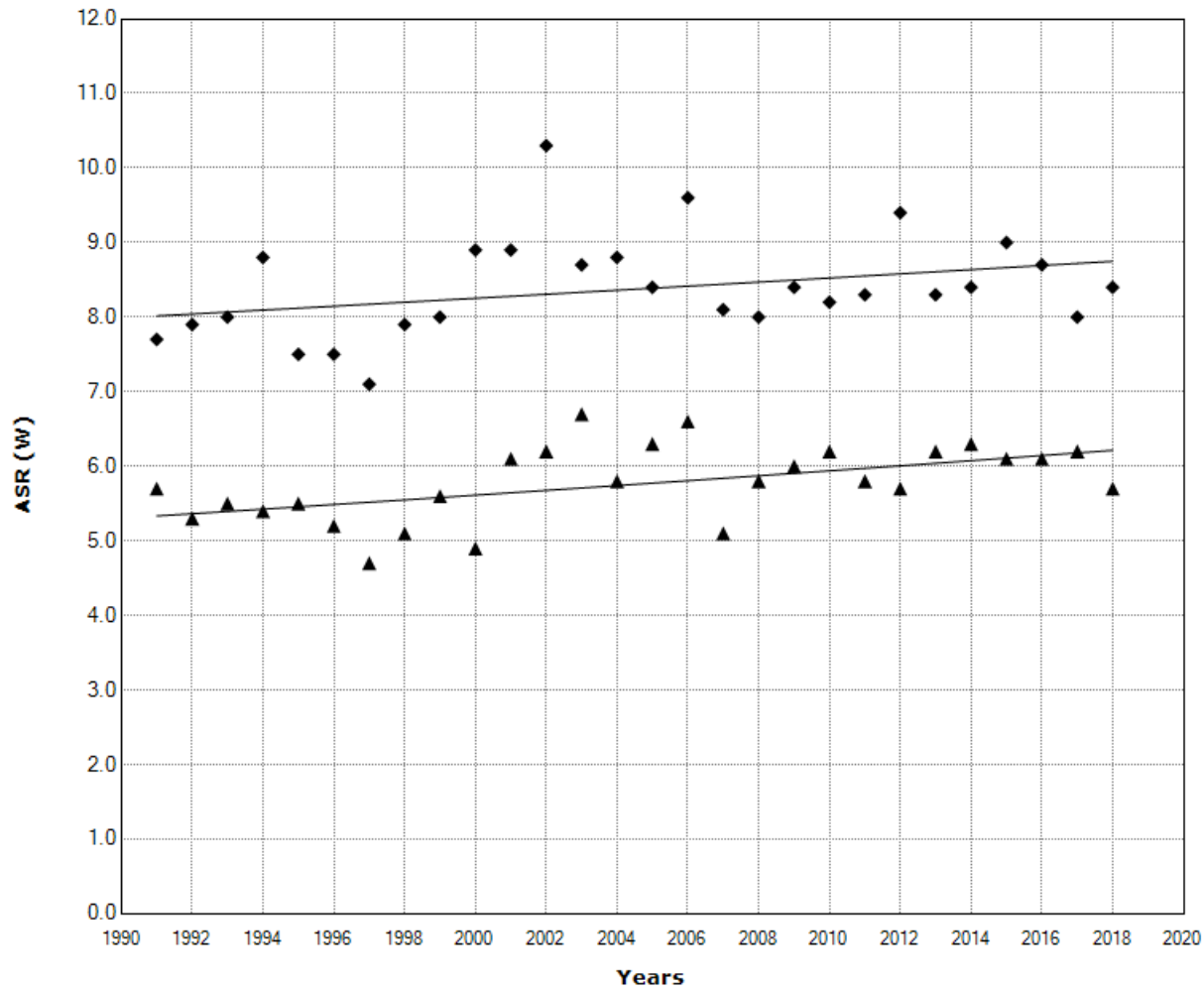
[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Ireland: Males: 1 Joinpoint versus Females: 0 Joinpoints



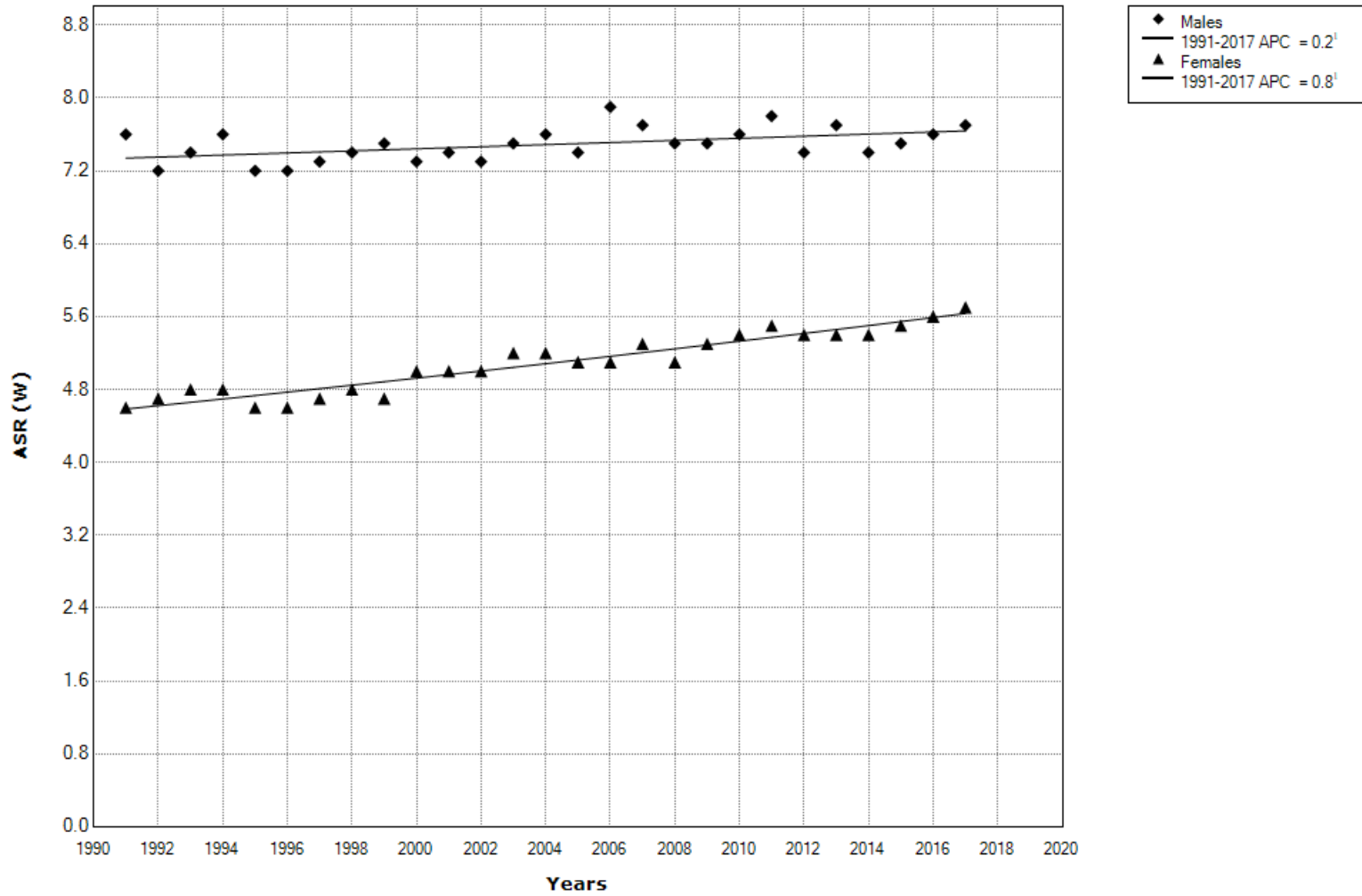
[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

Israel: Males: 0 Joinpoints versus Females: 0 Joinpoints



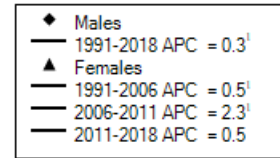
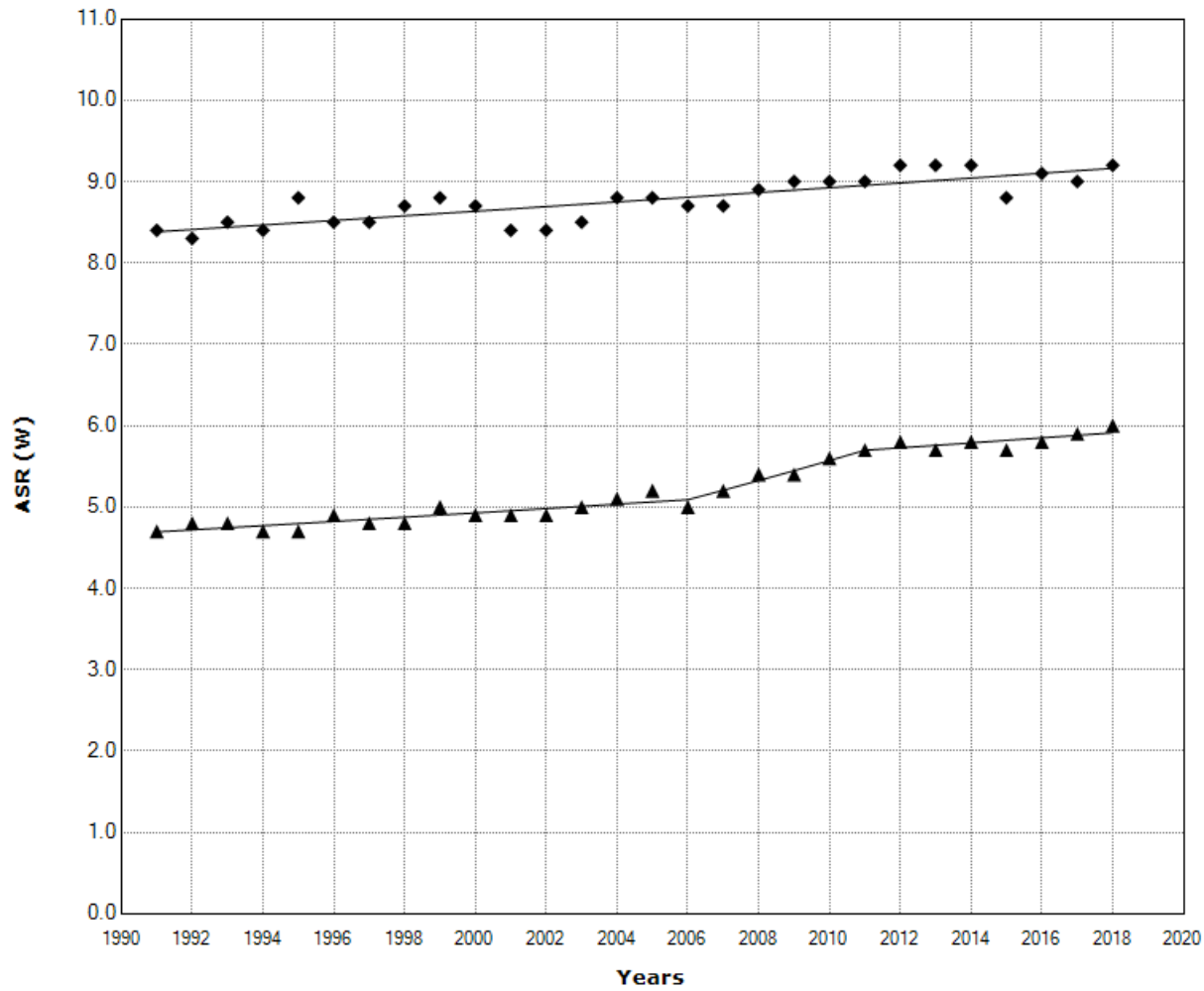
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Italy: Males: 0 Joinpoints versus Females: 0 Joinpoints



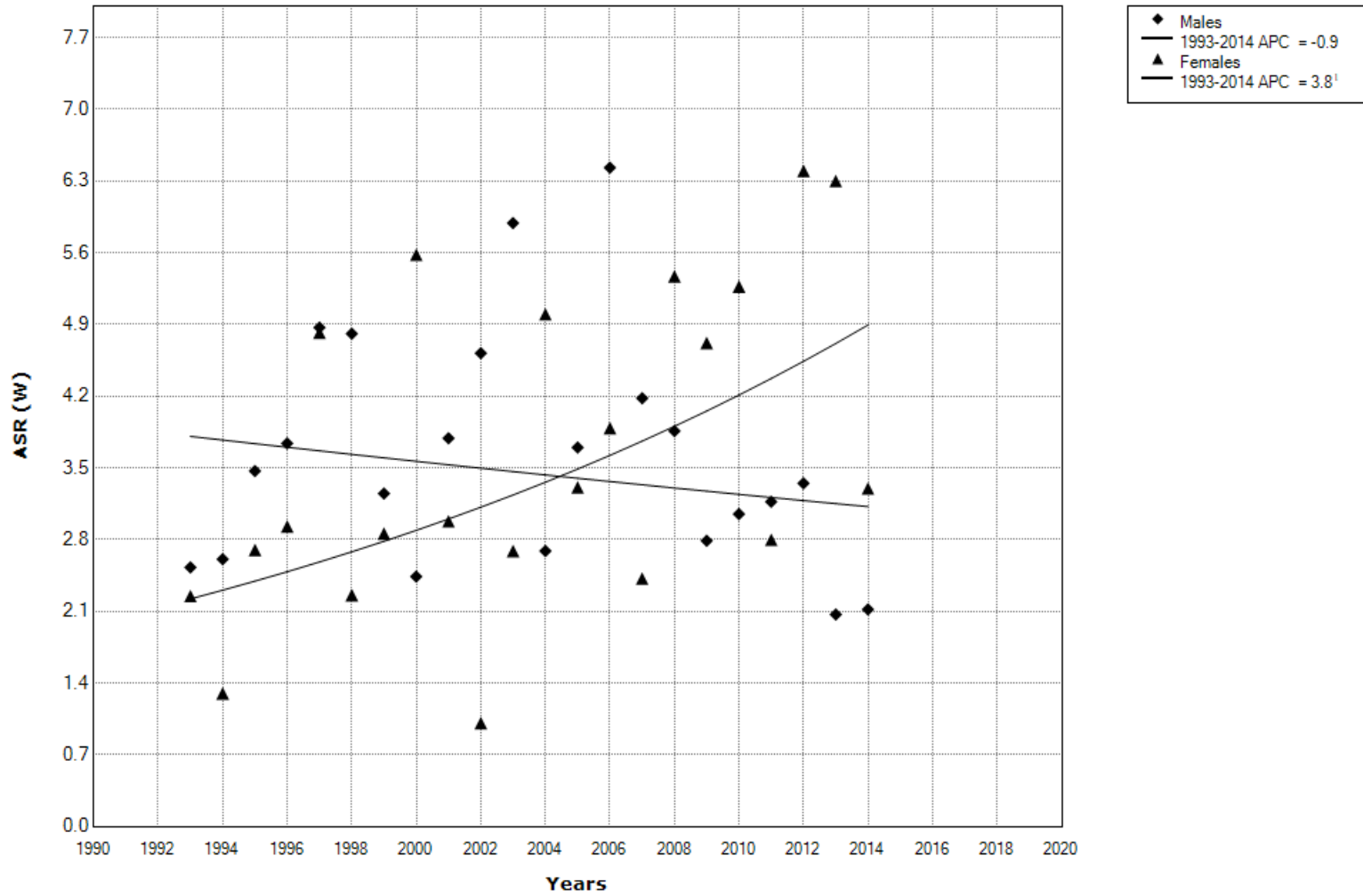
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Japan: Males: 0 Joinpoints versus Females: 2 Joinpoints



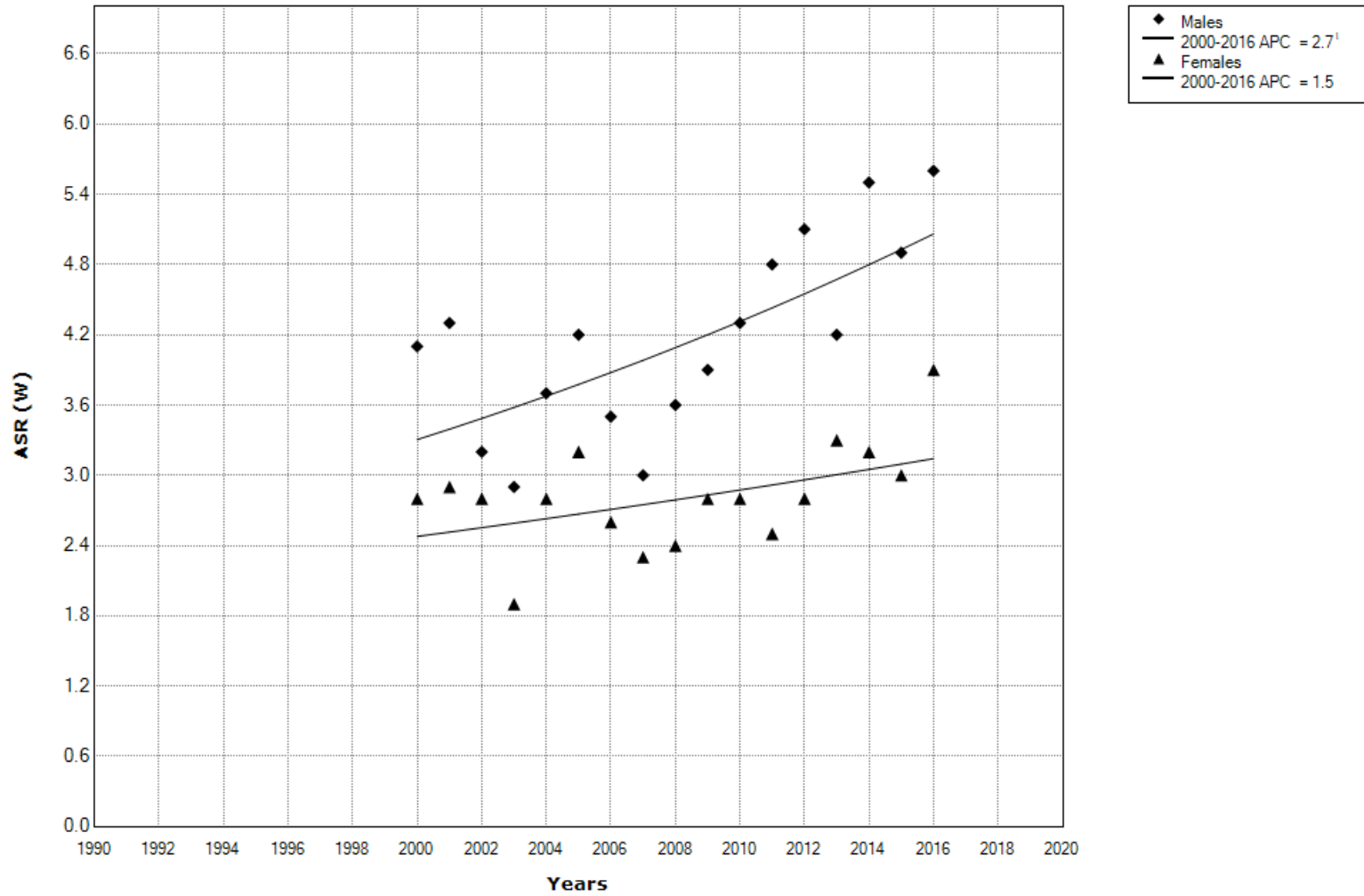
[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 2 Joinpoints. Rejected Coincidence.

Kuwait: Males: 0 Joinpoints versus Females: 0 Joinpoints



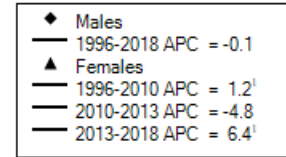
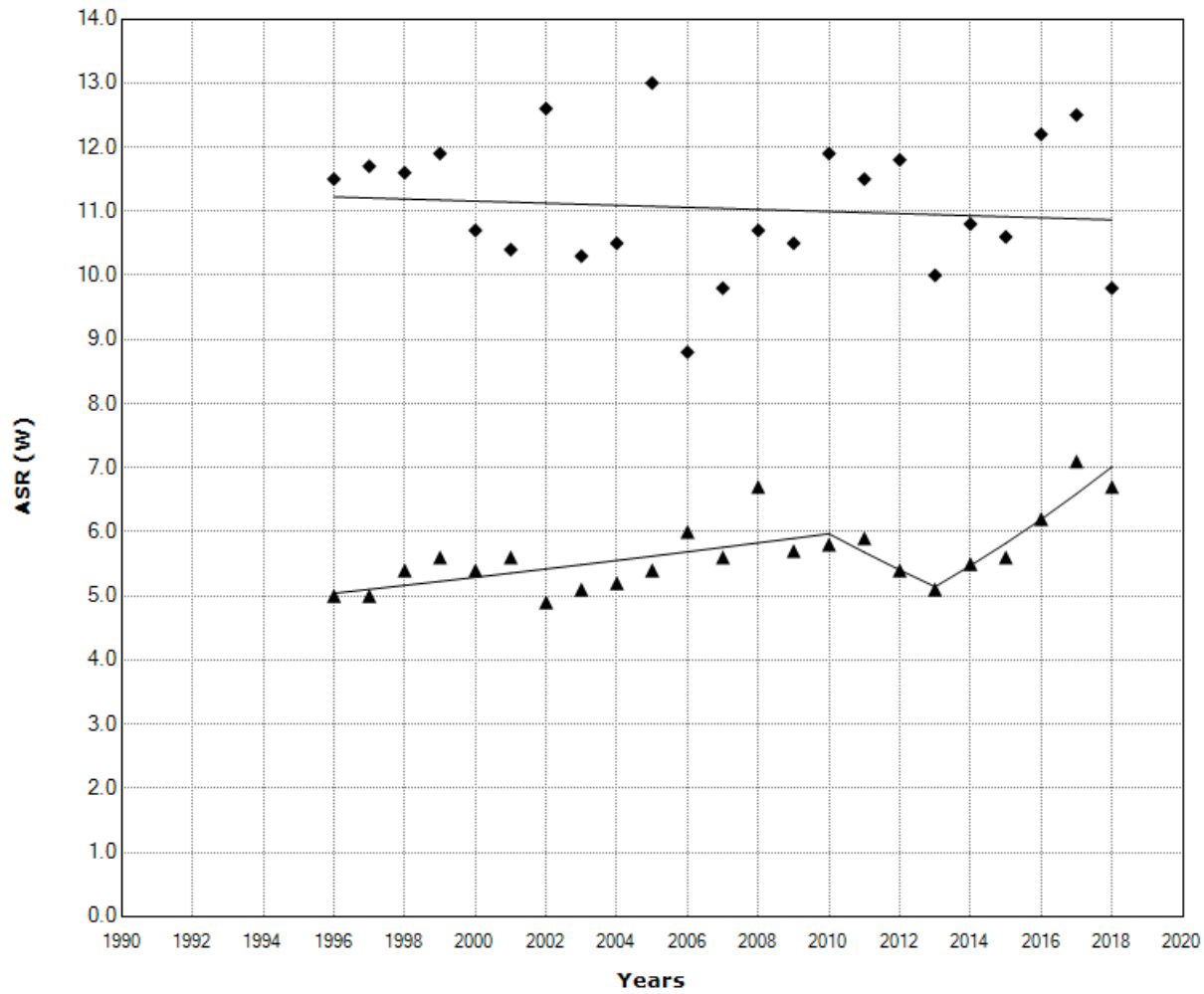
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Kyrgyzstan: Males: 0 Joinpoints versus Females: 0 Joinpoints



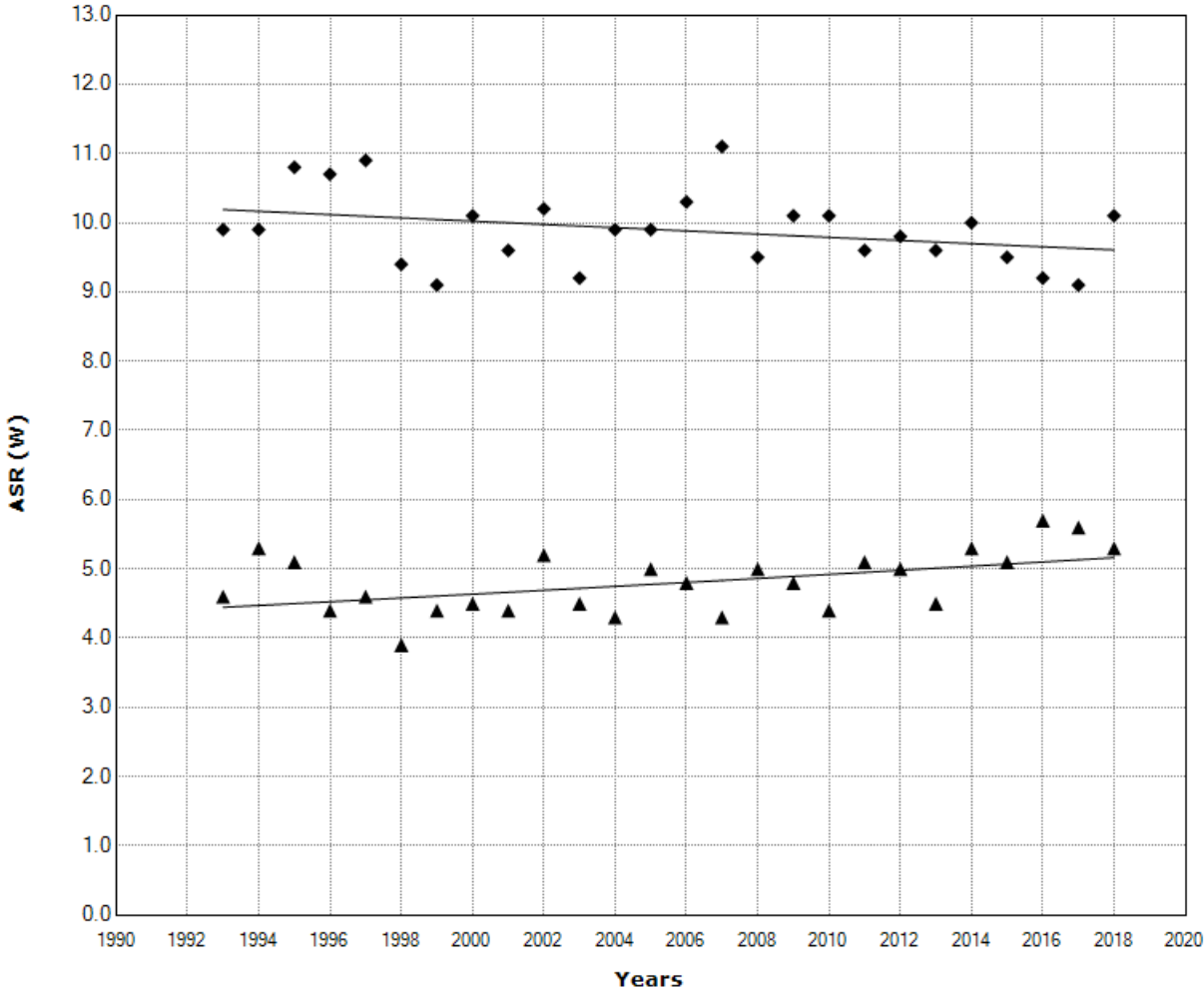
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Latvia: Males: 0 Joinpoints versus Females: 2 Joinpoints



[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 2 Joinpoints. Rejected Coincidence.

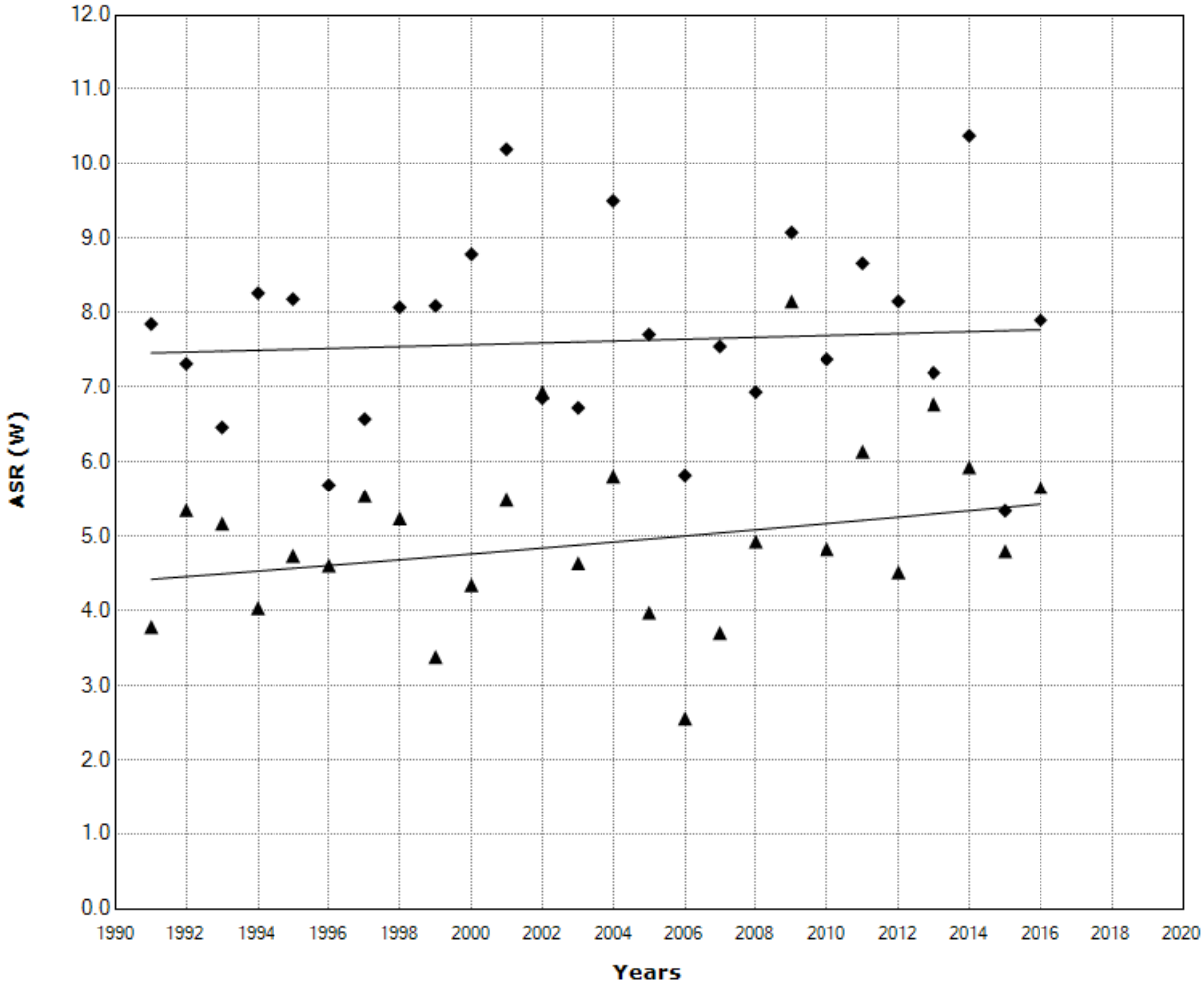
Lithuania: Males: 0 Joinpoints versus Females: 0 Joinpoints



◆ Males
 — 1993-2018 APC = -0.2
 ▲ Females
 — 1993-2018 APC = 0.6[†]

[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

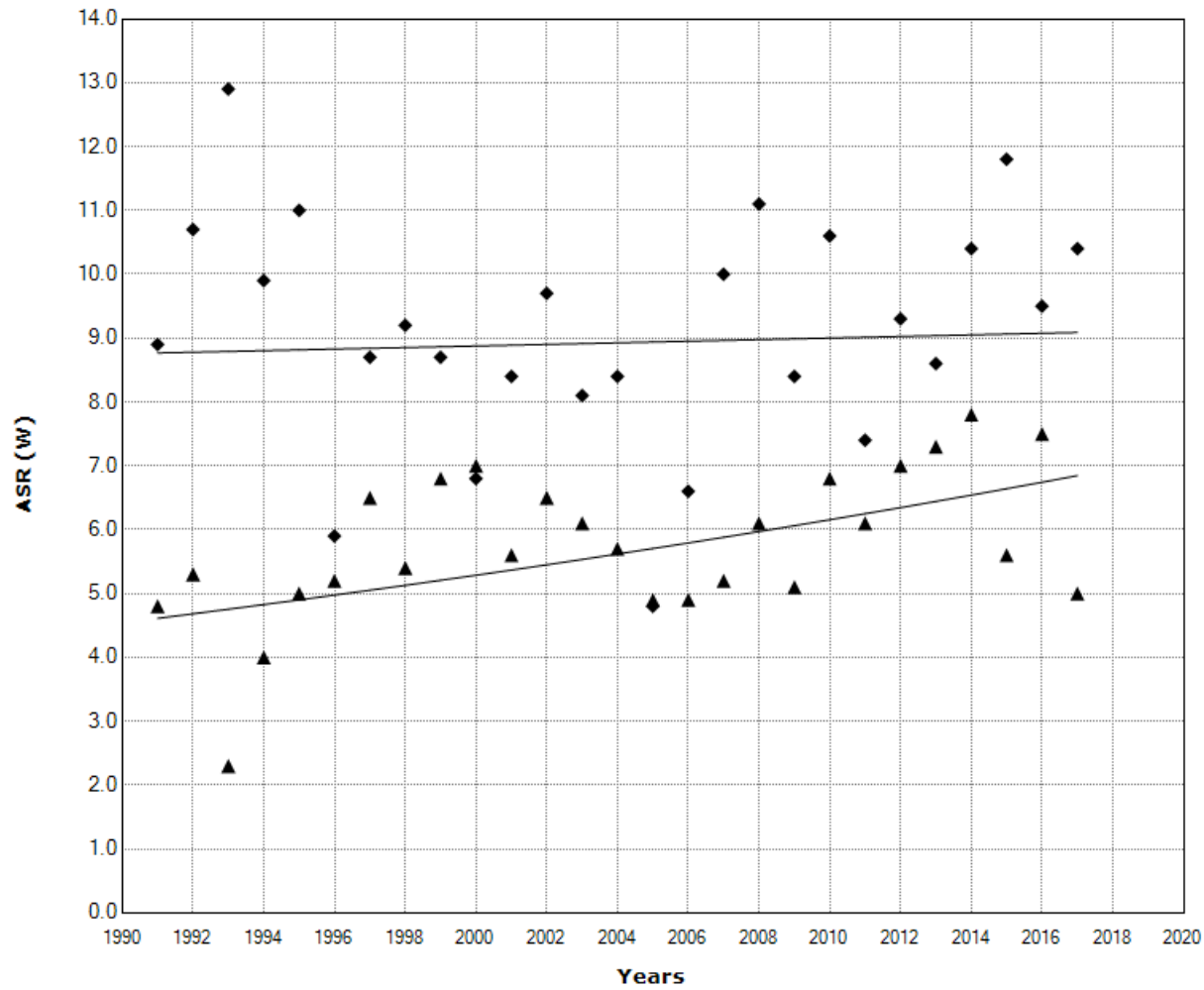
Luxembourg: Males: 0 Joinpoints versus Females: 0 Joinpoints



◆ Males
 — 1991-2016 APC = 0.2
 ▲ Females
 — 1991-2016 APC = 0.8

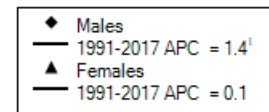
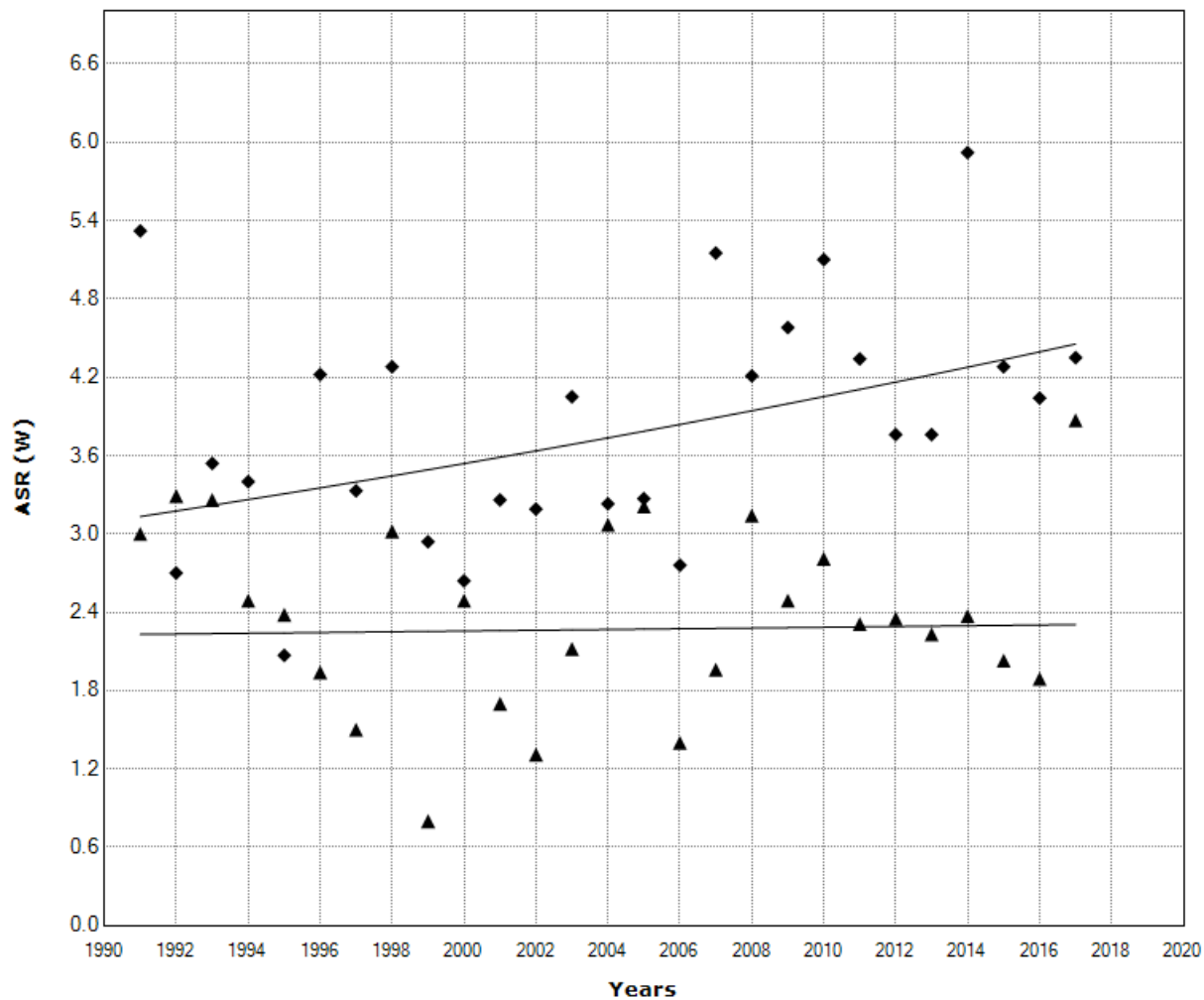
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Malta: Males: 0 Joinpoints versus Females: 0 Joinpoints



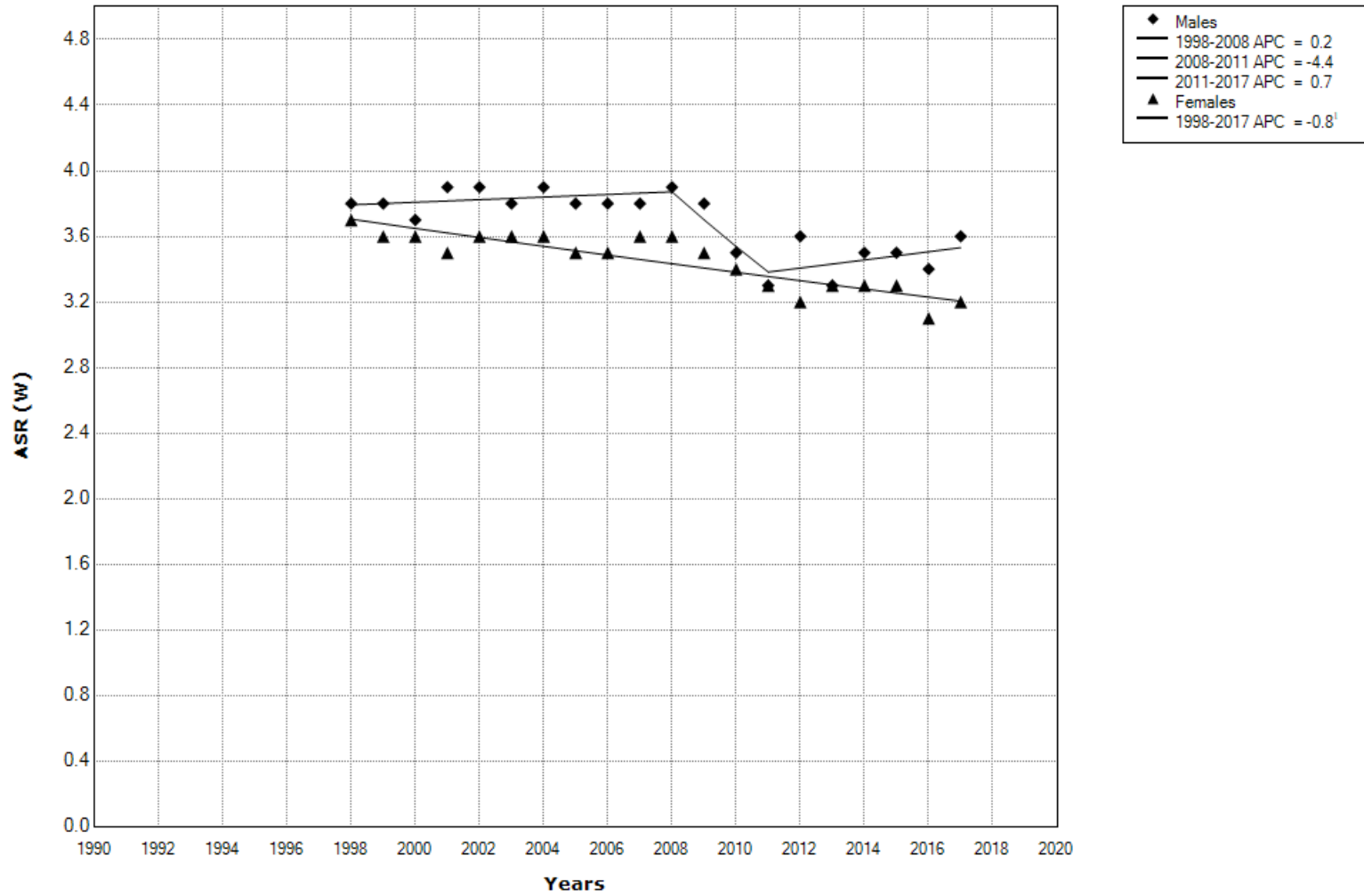
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Mauritius: Males: 0 Joinpoints versus Females: 0 Joinpoints



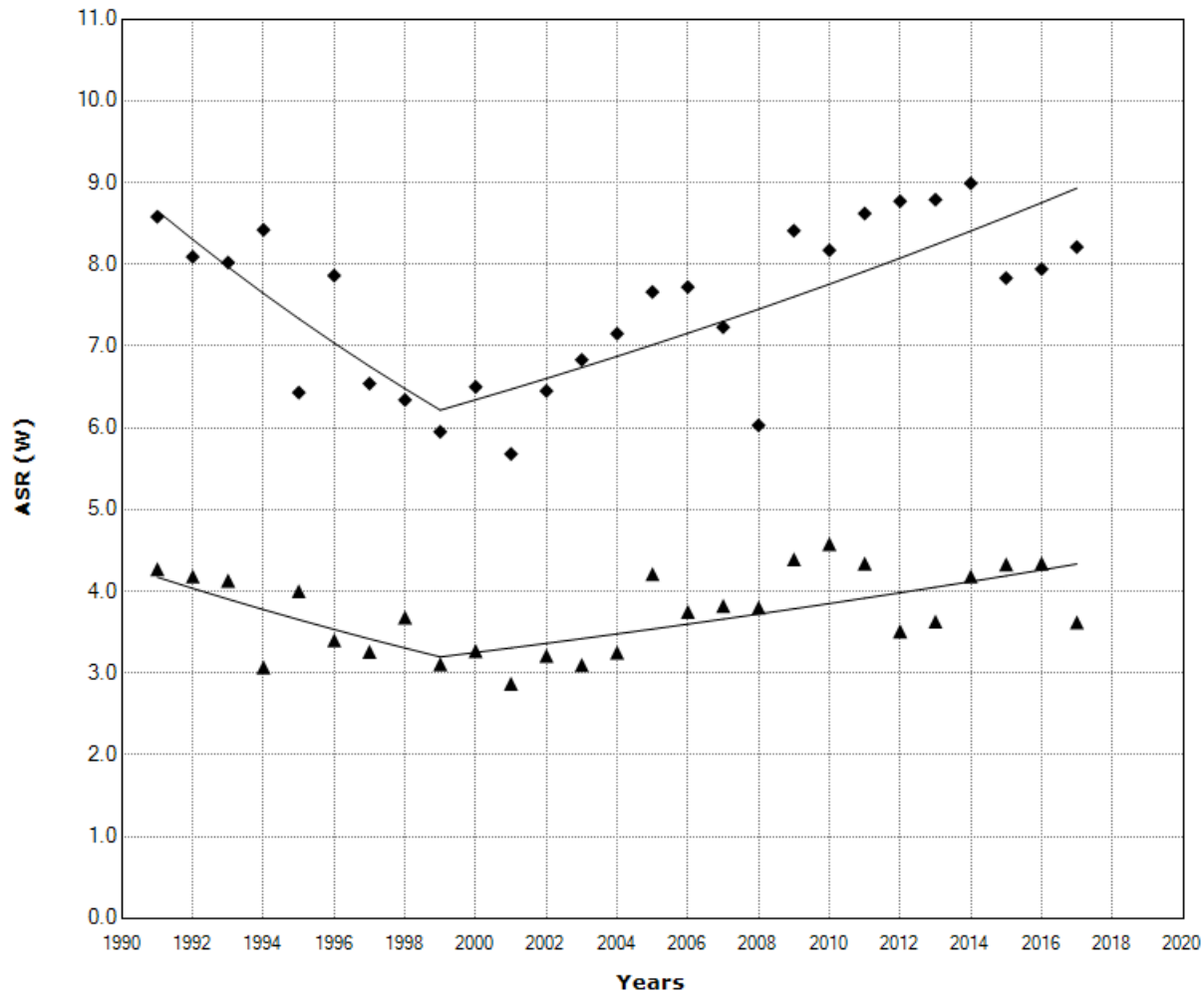
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Mexico: Males: 2 Joinpoints versus Females: 0 Joinpoints



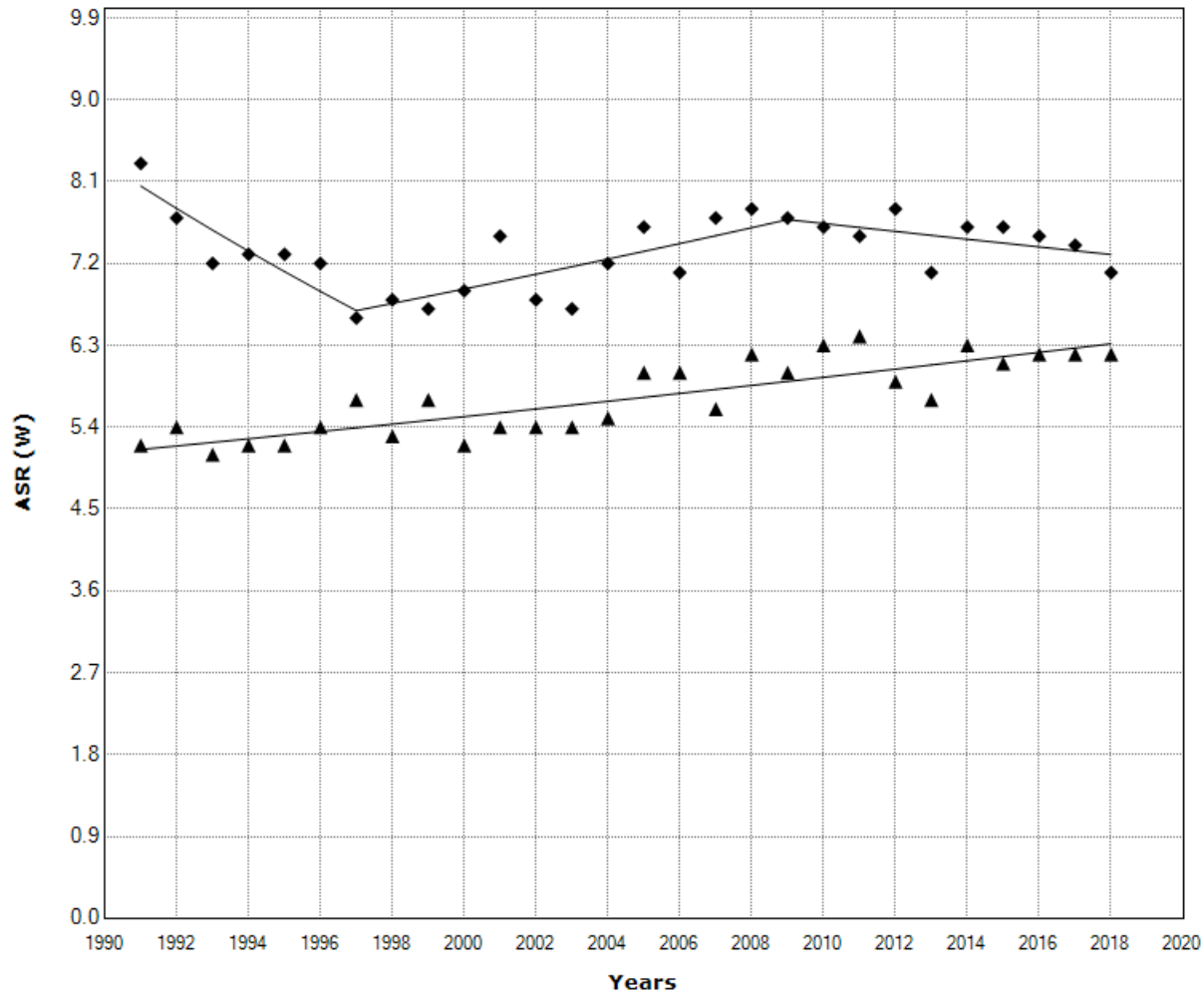
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 2 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Moldova: Males: 1 Joinpoint versus Females: 1 Joinpoint



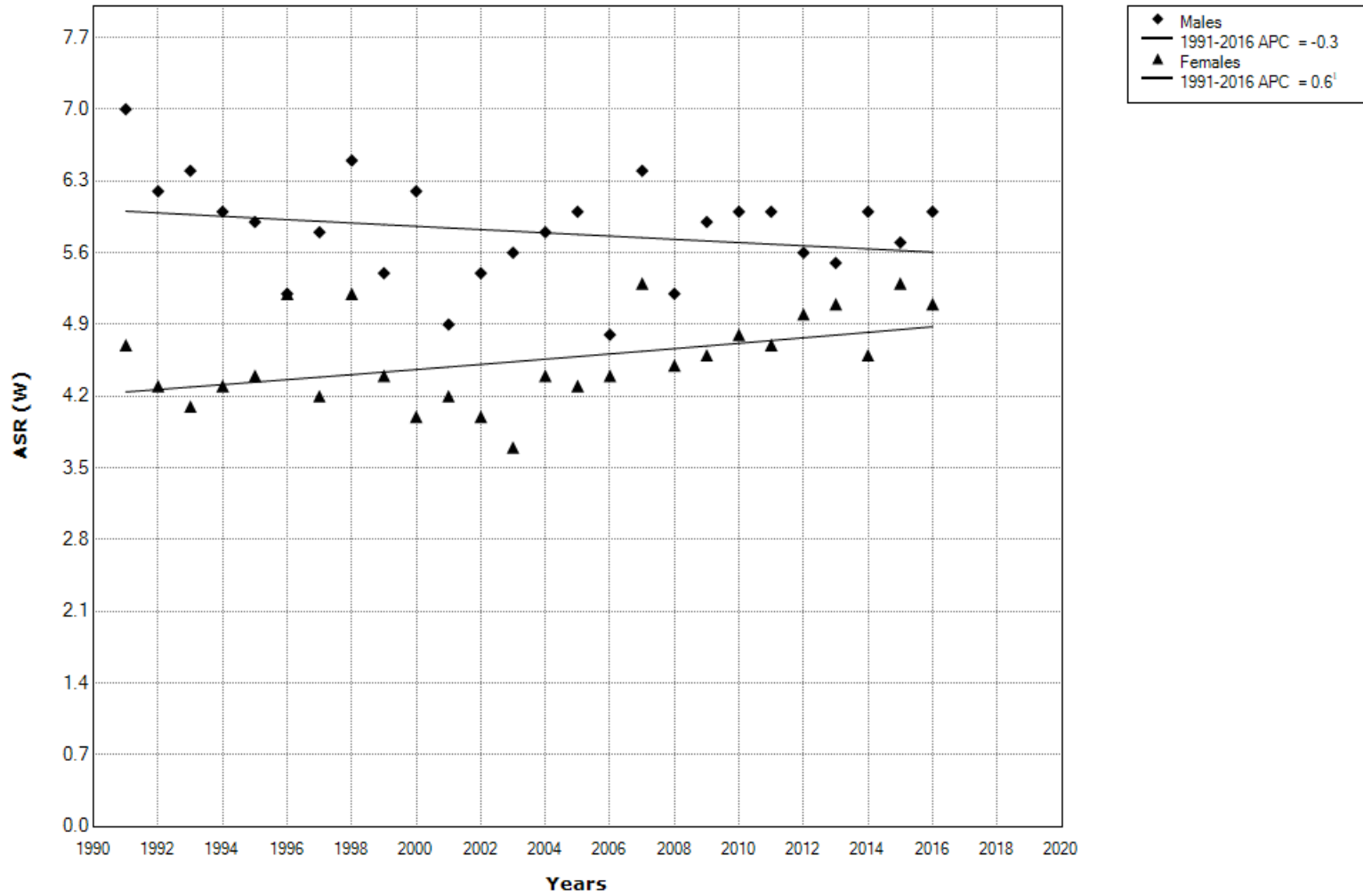
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Rejected Coincidence.

Netherlands: Males: 2 Joinpoints versus Females: 0 Joinpoints



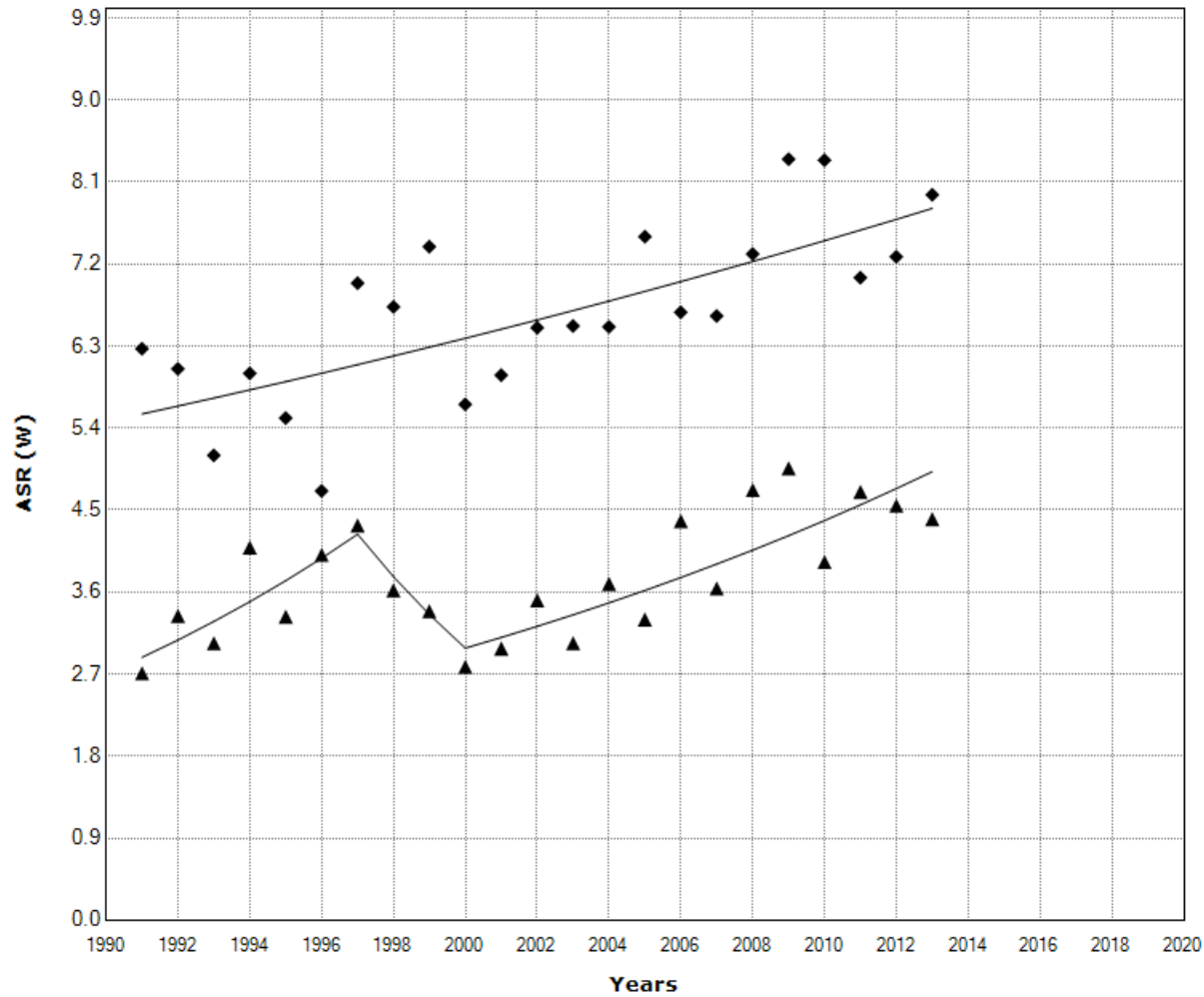
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 2 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

New Zealand: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

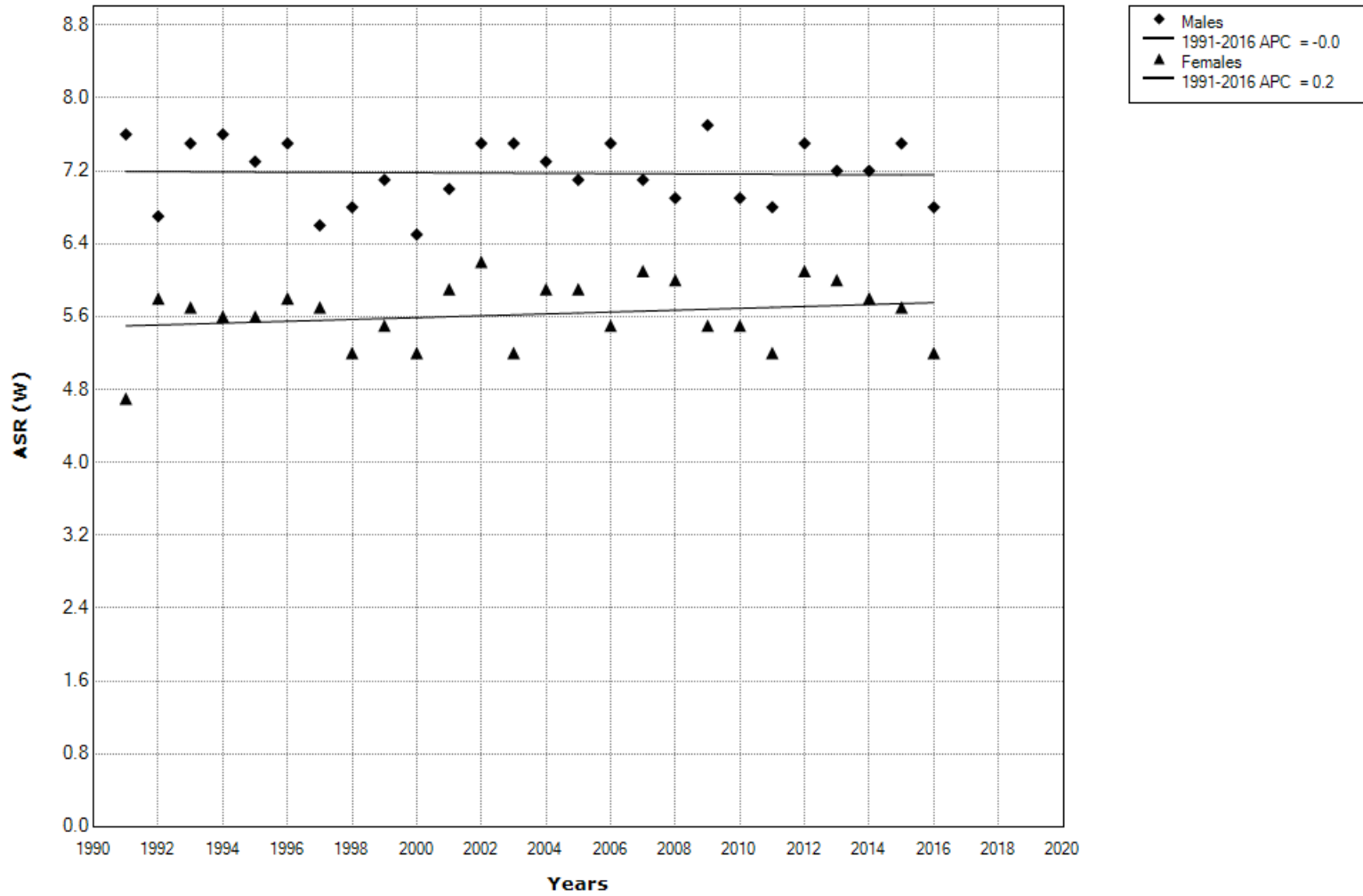
North Macedonia: Males: 0 Joinpoints versus Females: 2 Joinpoints



- ◆ Males
- 1991-2013 APC = 1.6¹
- ▲ Females
- 1991-1997 APC = 6.6¹
- 1997-2000 APC = -11.0
- 2000-2013 APC = 3.9¹

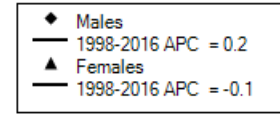
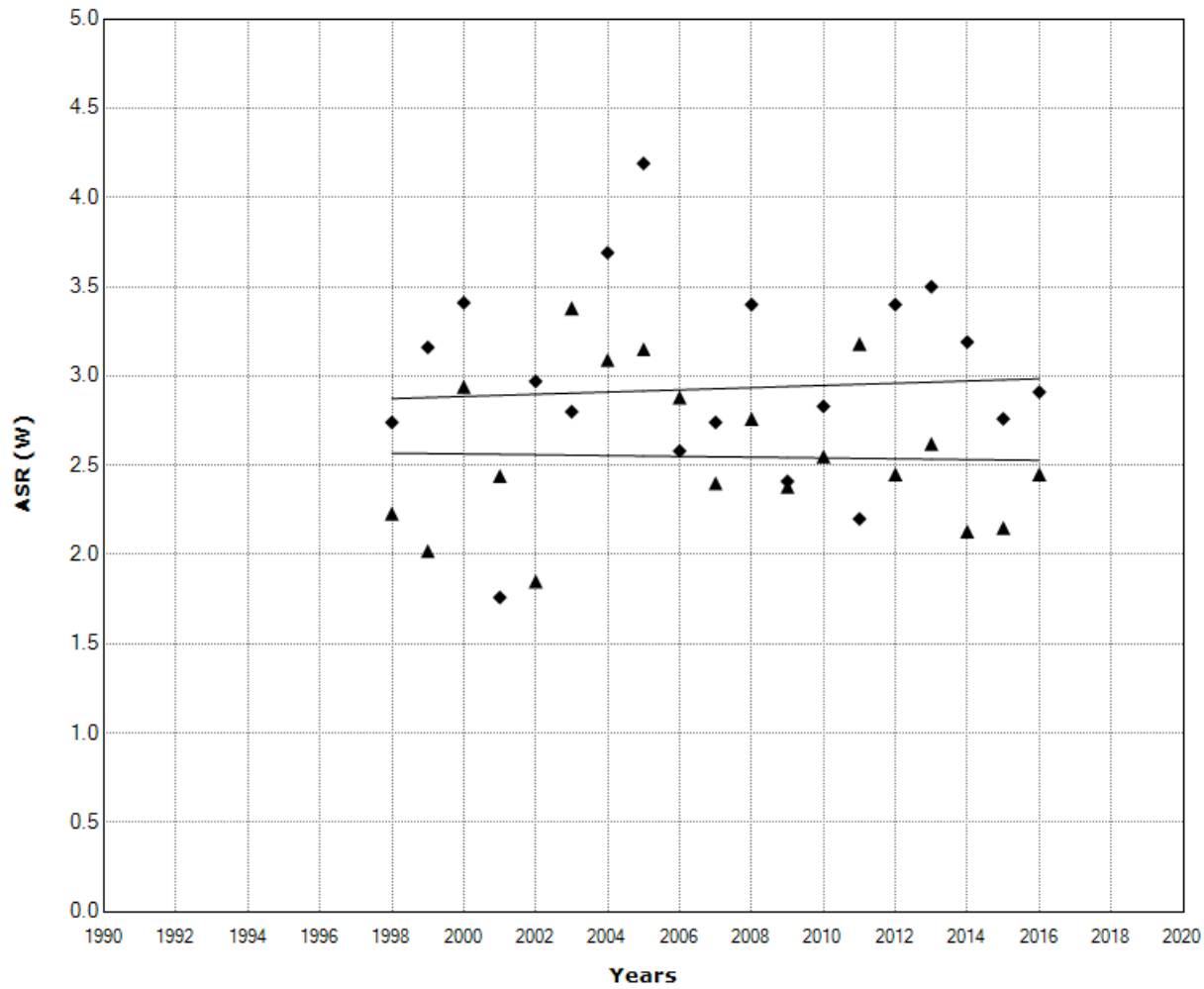
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 2 Joinpoints. Rejected Coincidence.

Norway: Males: 0 Joinpoints versus Females: 0 Joinpoints



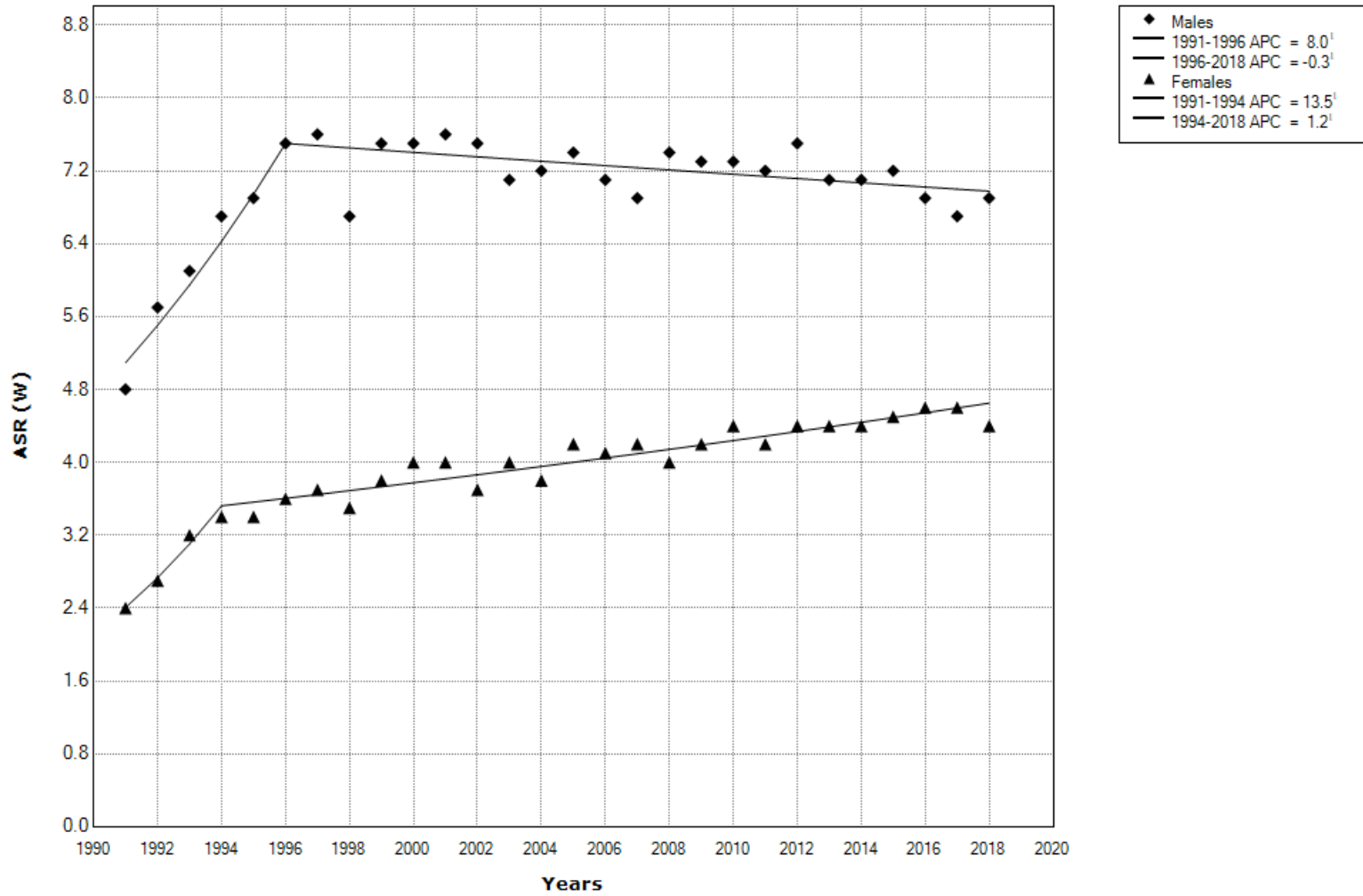
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Panama: Males: 0 Joinpoints versus Females: 0 Joinpoints



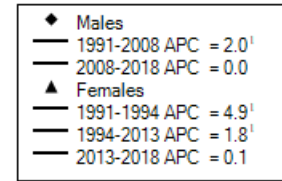
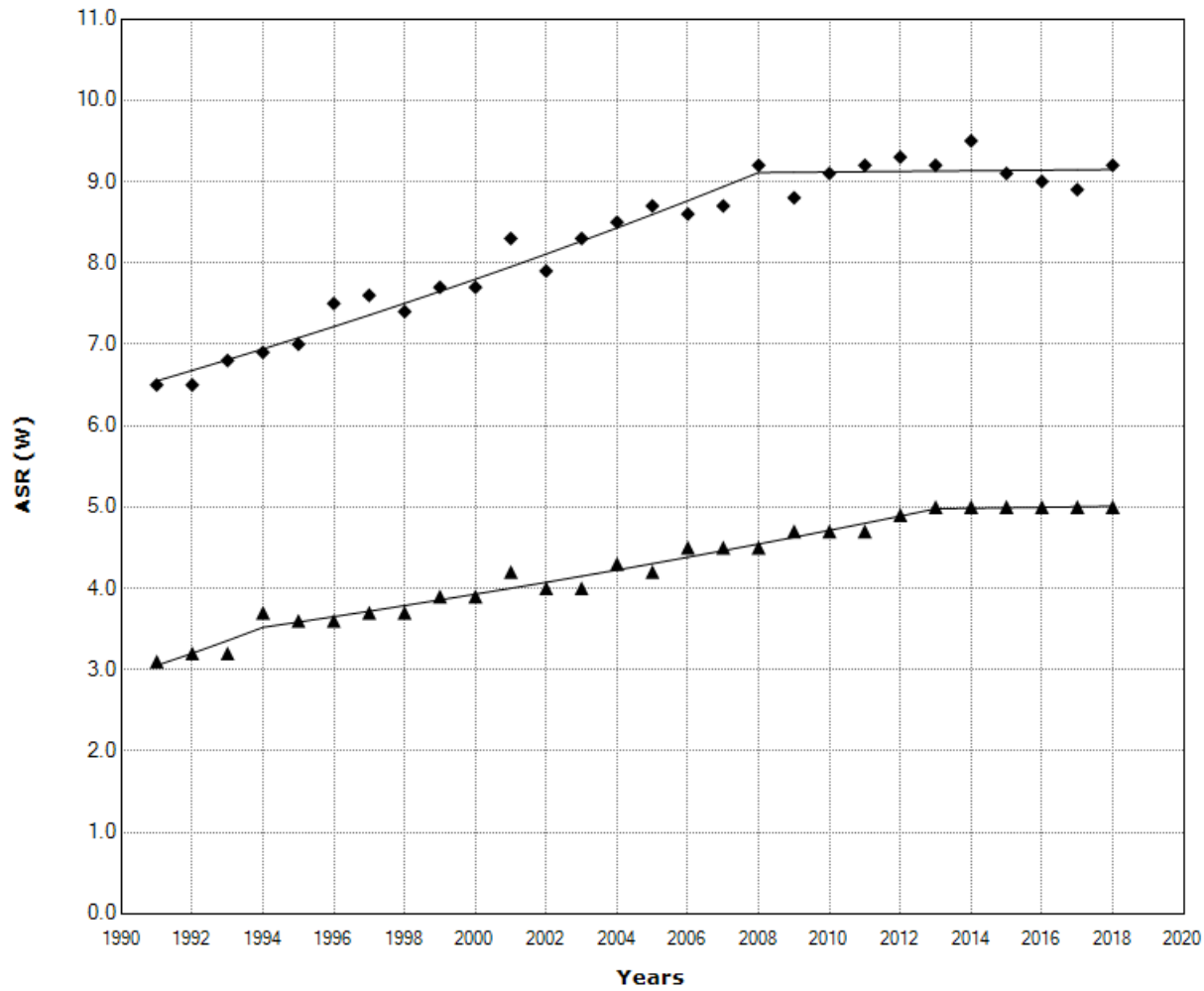
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Failed to reject Coincidence.

Republic of Korea: Males: 1 Joinpoint versus Females: 1 Joinpoint



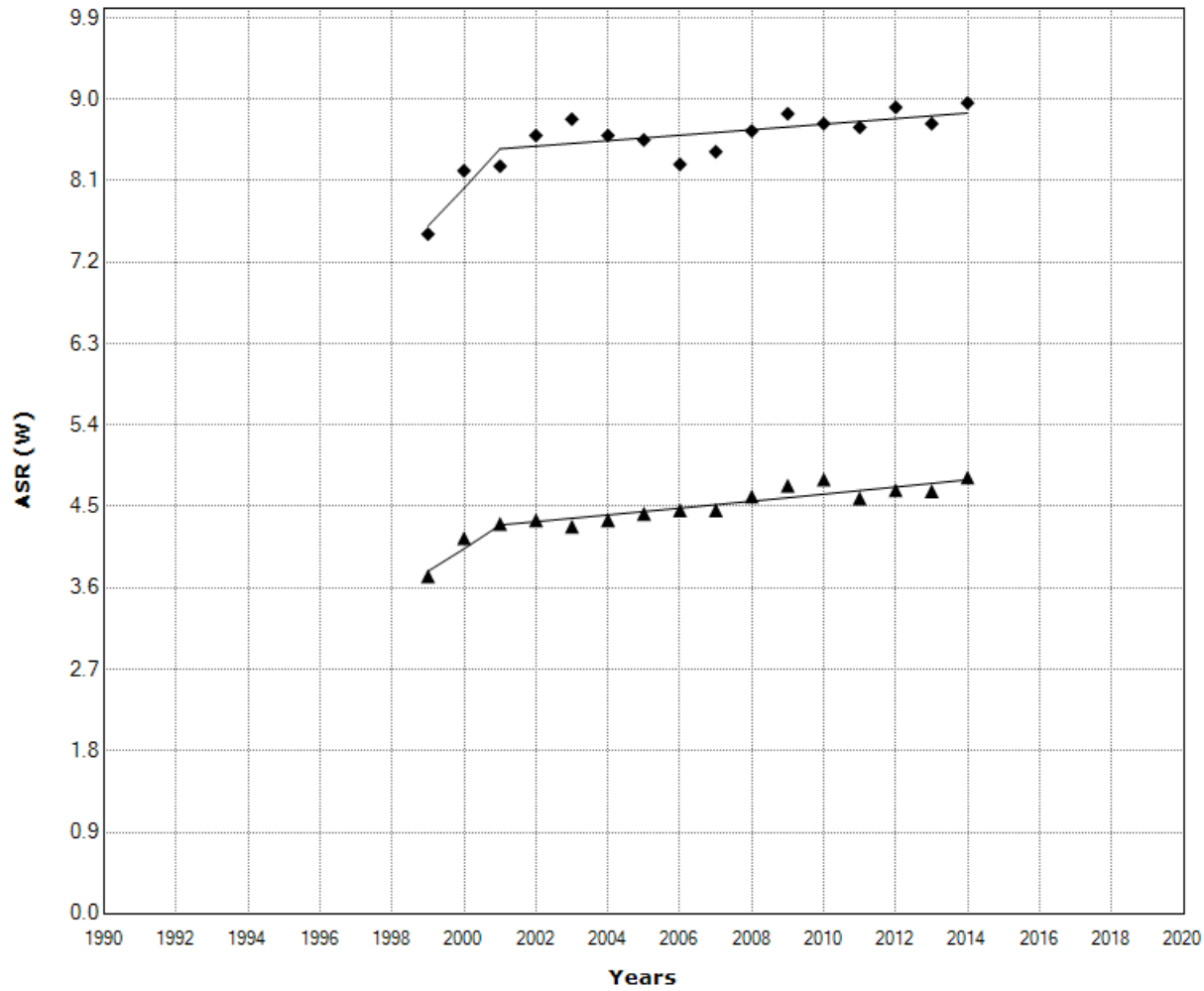
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Rejected Coincidence.

Romania: Males: 1 Joinpoint versus Females: 2 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 2 Joinpoints. Rejected Coincidence.

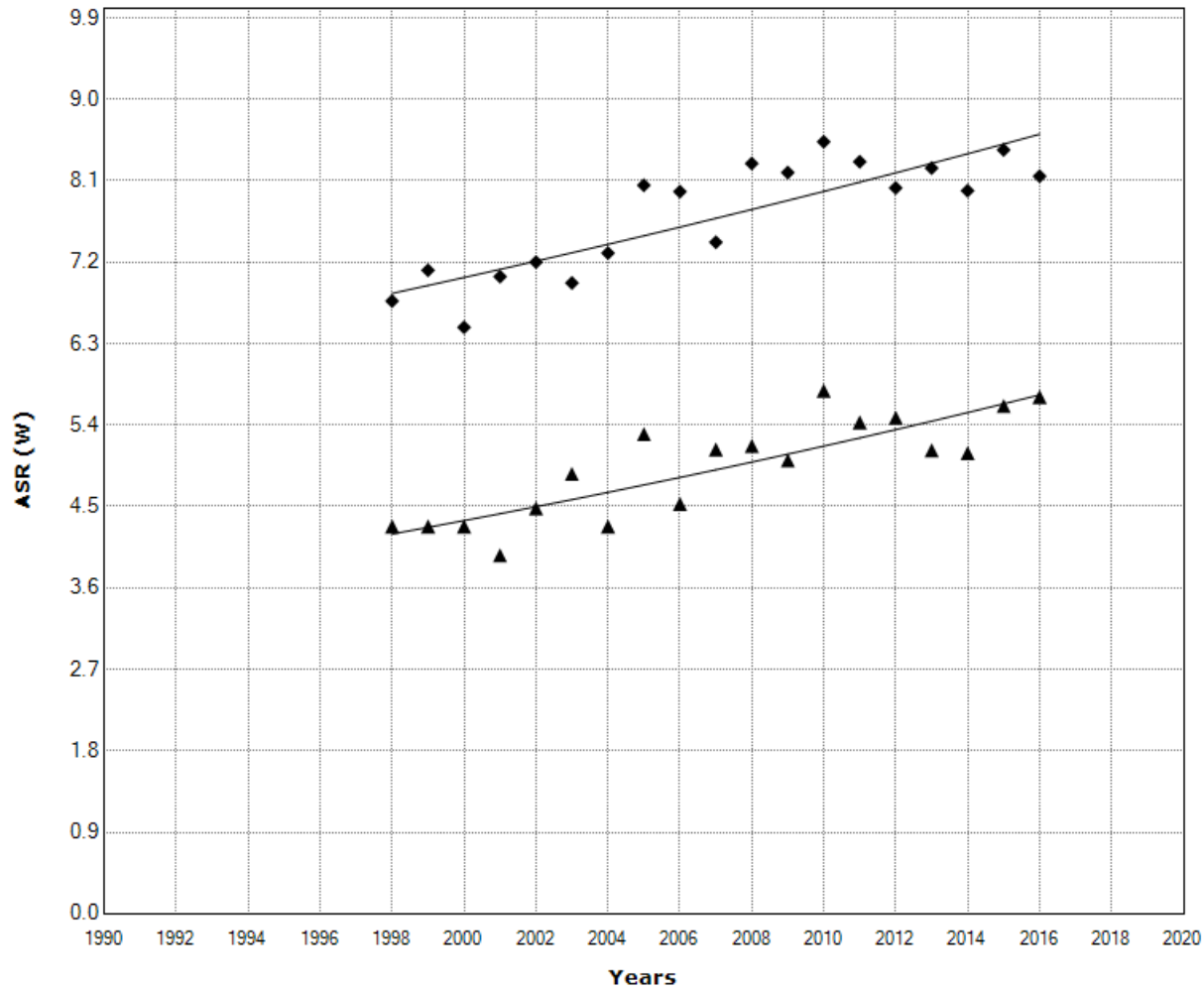
Russian Federation: Males: 1 Joinpoint versus Females: 1 Joinpoint



- ◆ Males
- 1999-2001 APC = 5.5
- 2001-2014 APC = 0.4¹
- ▲ Females
- 1999-2001 APC = 6.6¹
- 2001-2014 APC = 0.8¹

¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Rejected Coincidence.

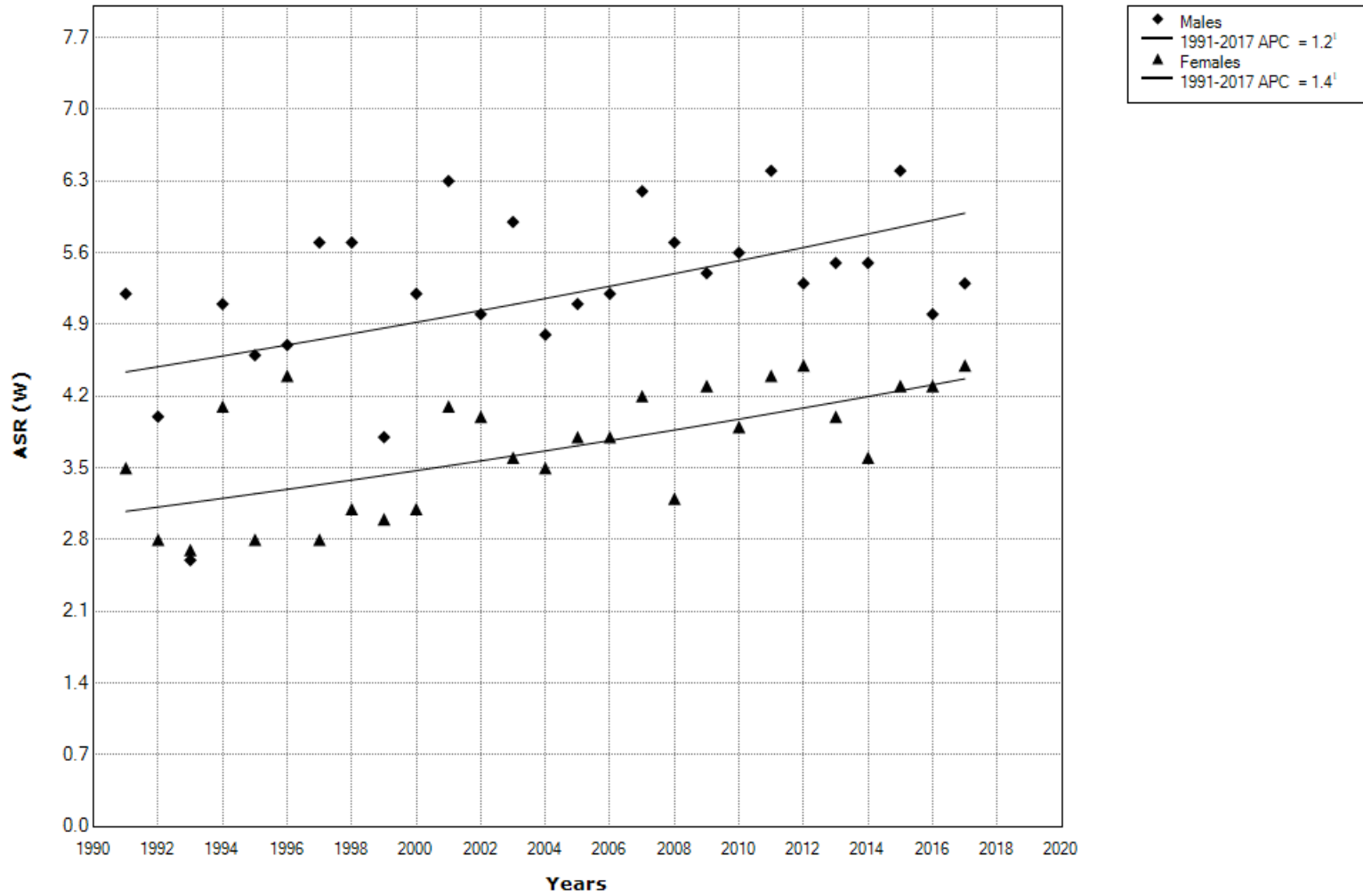
Serbia: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1998-2016 APC = 1.3[†]
- ▲ Females
- 1998-2016 APC = 1.7[†]

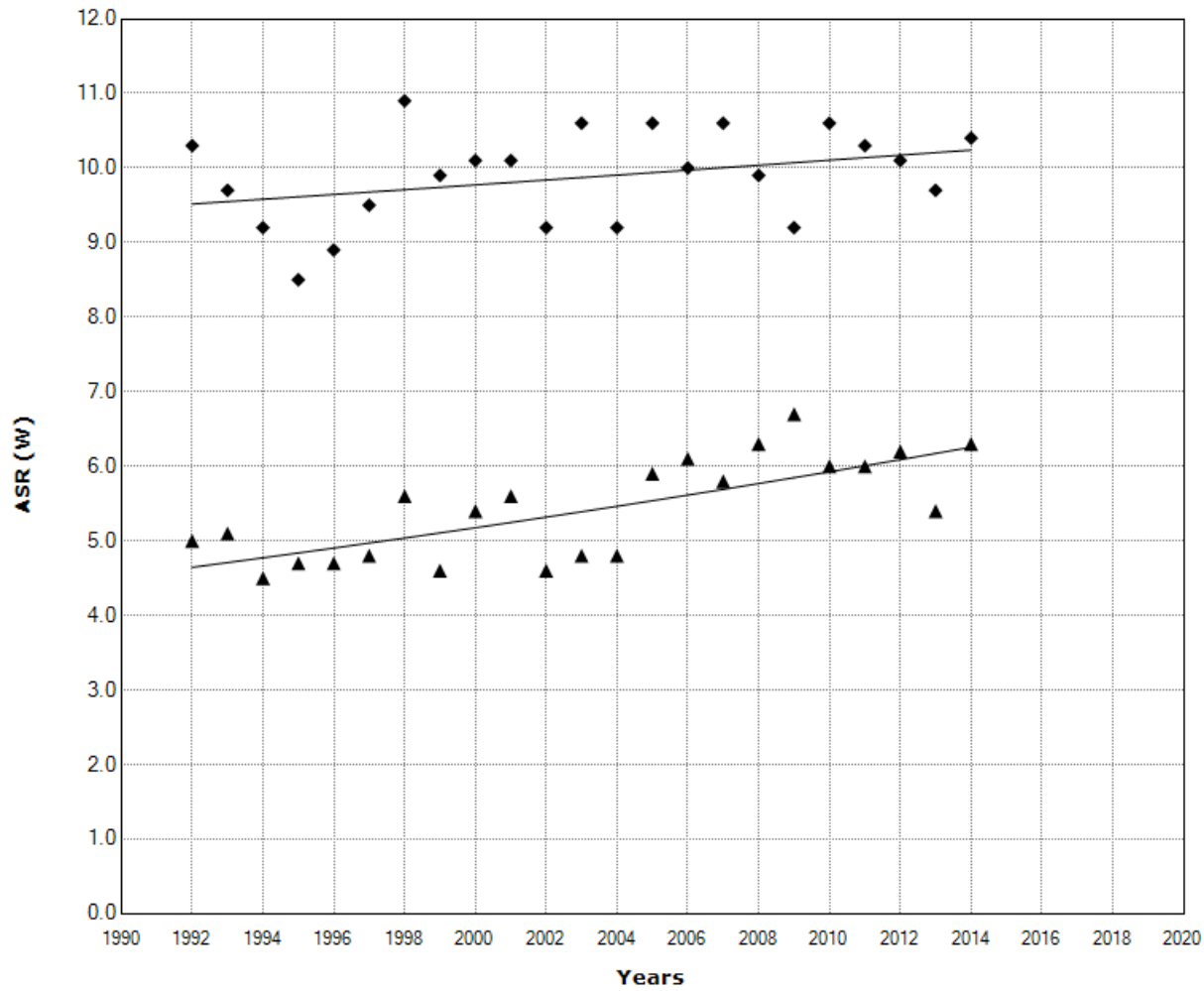
[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Singapore: Males: 0 Joinpoints versus Females: 0 Joinpoints



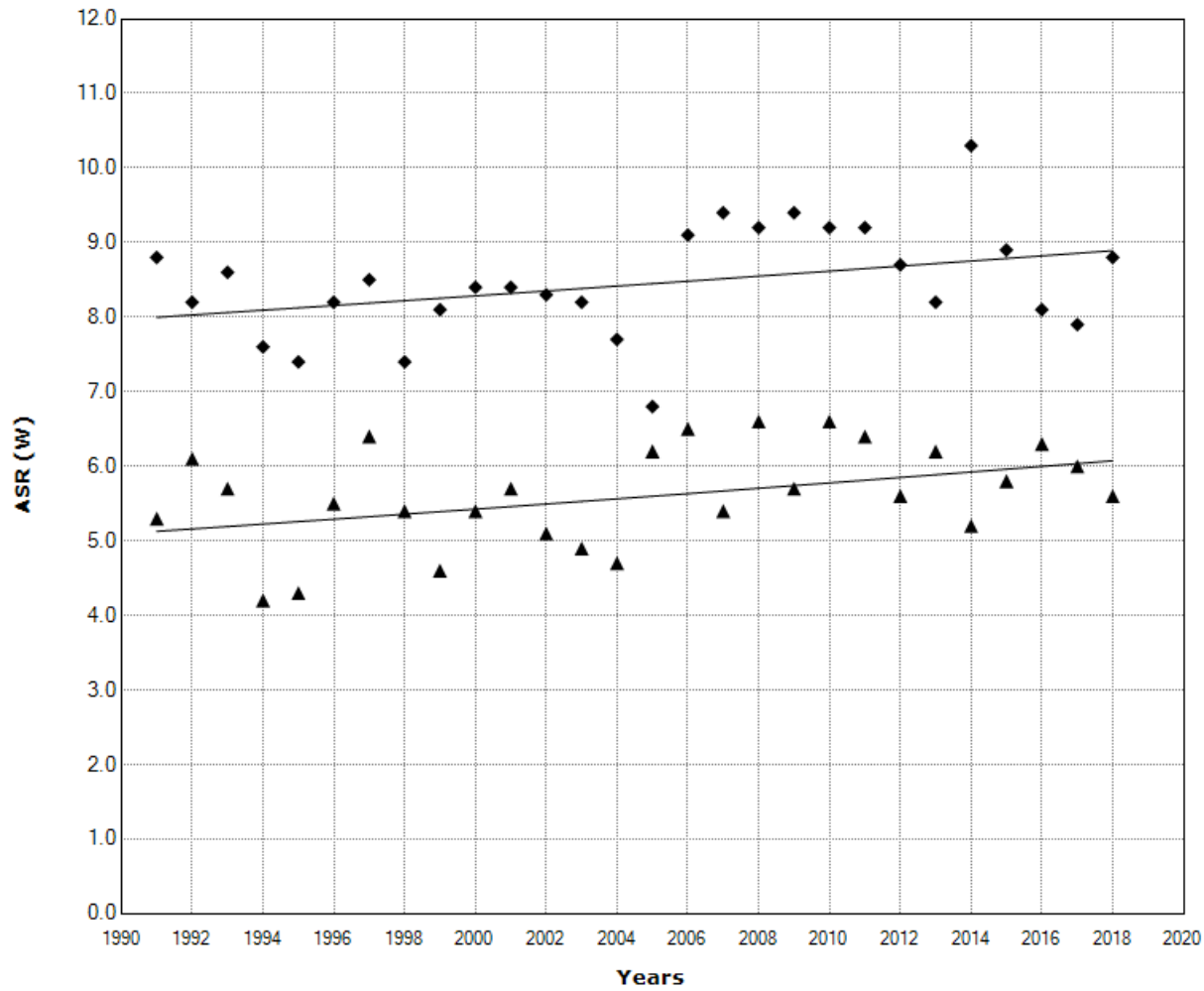
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Slovakia: Males: 0 Joinpoints versus Females: 0 Joinpoints



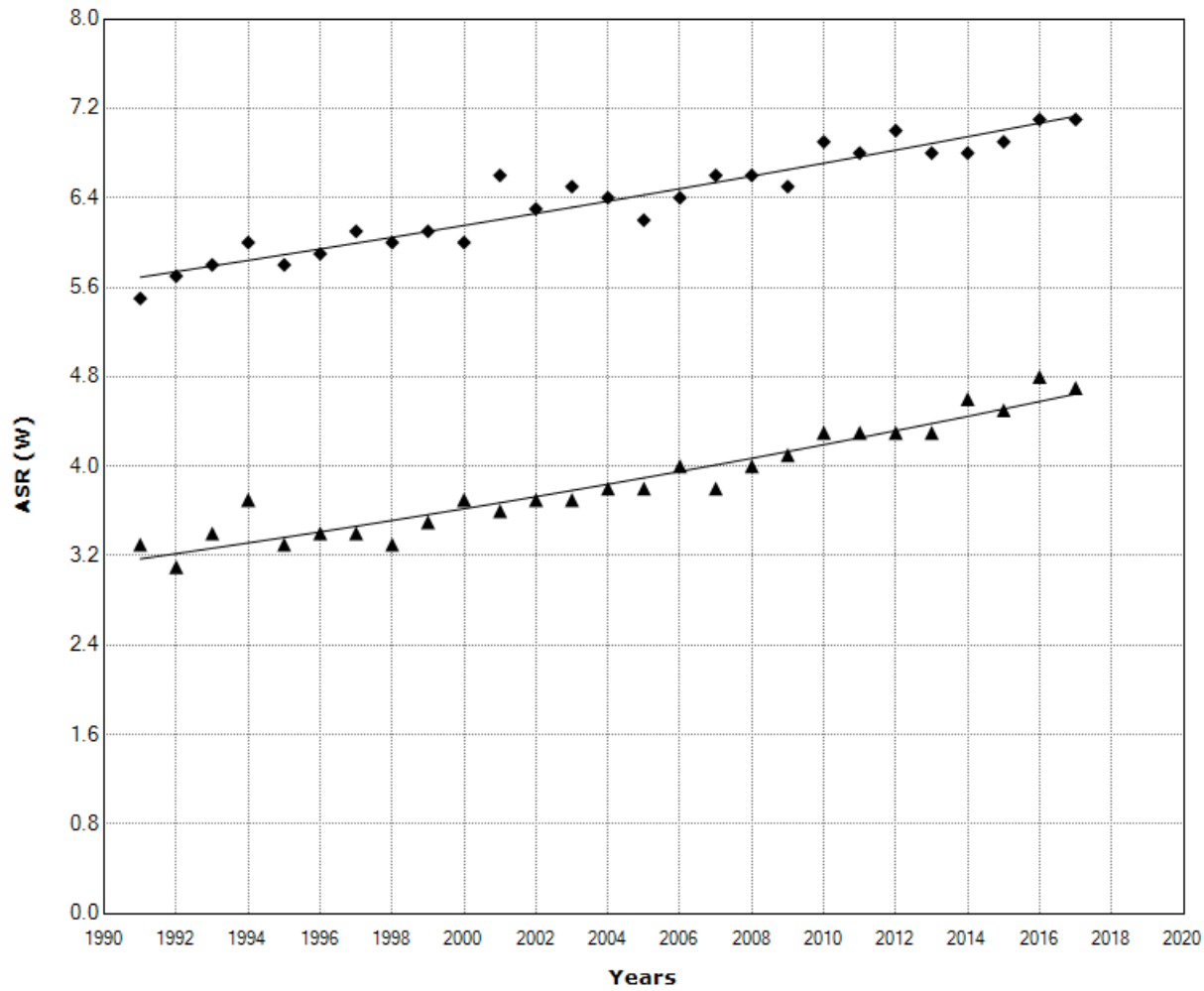
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Slovenia: Males: 0 Joinpoints versus Females: 0 Joinpoints



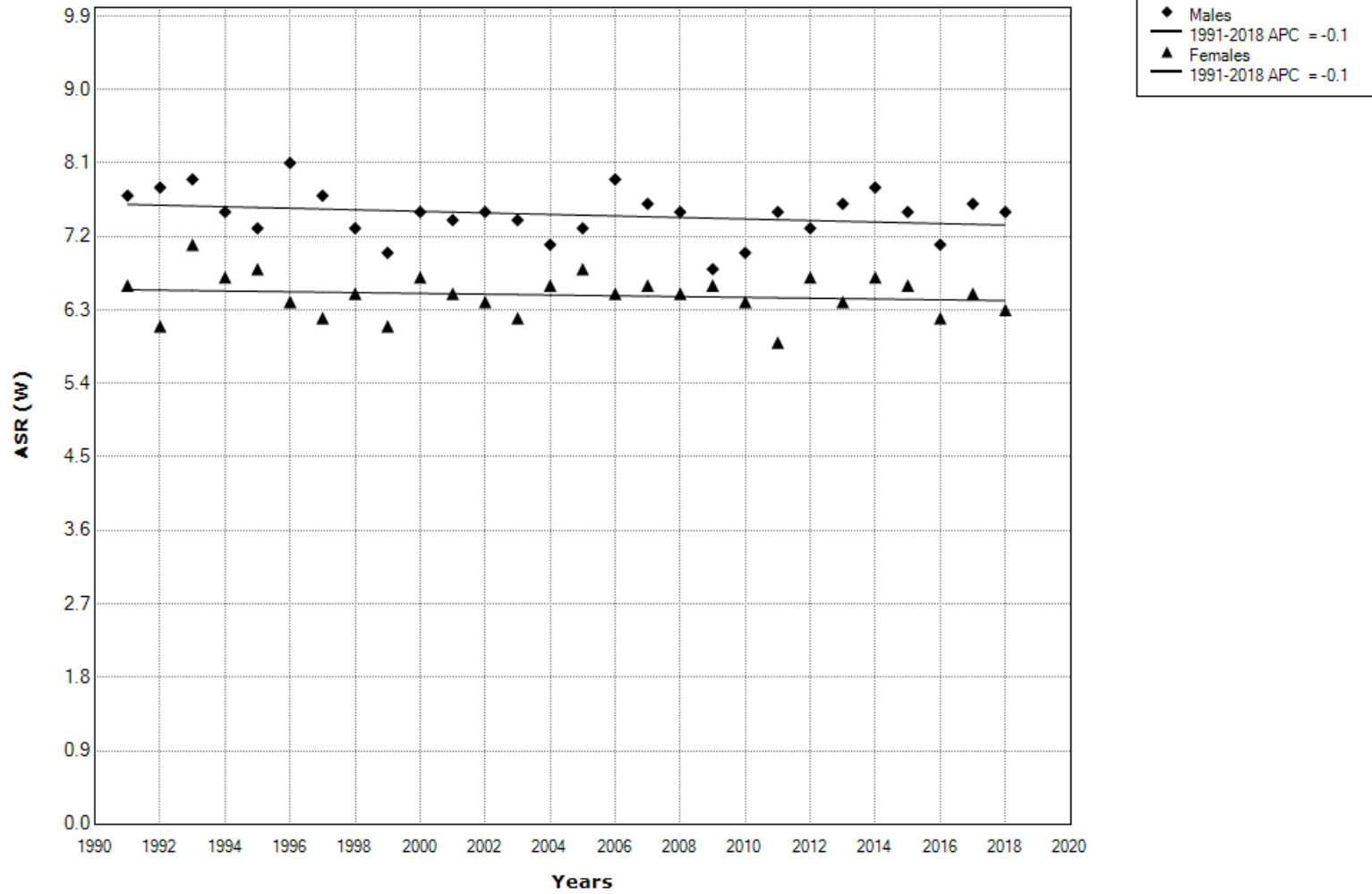
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Spain: Males: 0 Joinpoints versus Females: 0 Joinpoints



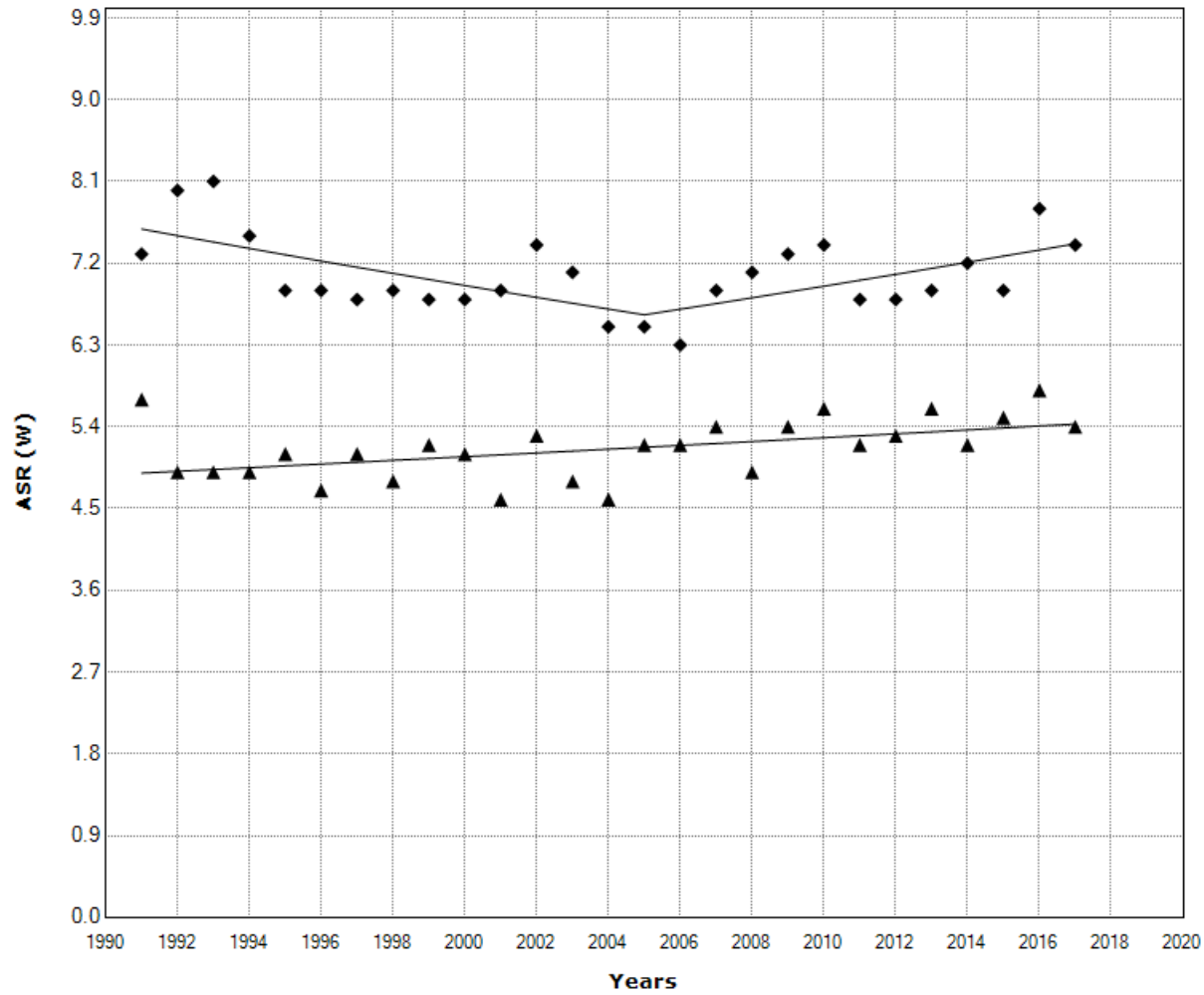
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Sweden: Males: 0 Joinpoints versus Females: 0 Joinpoints



[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

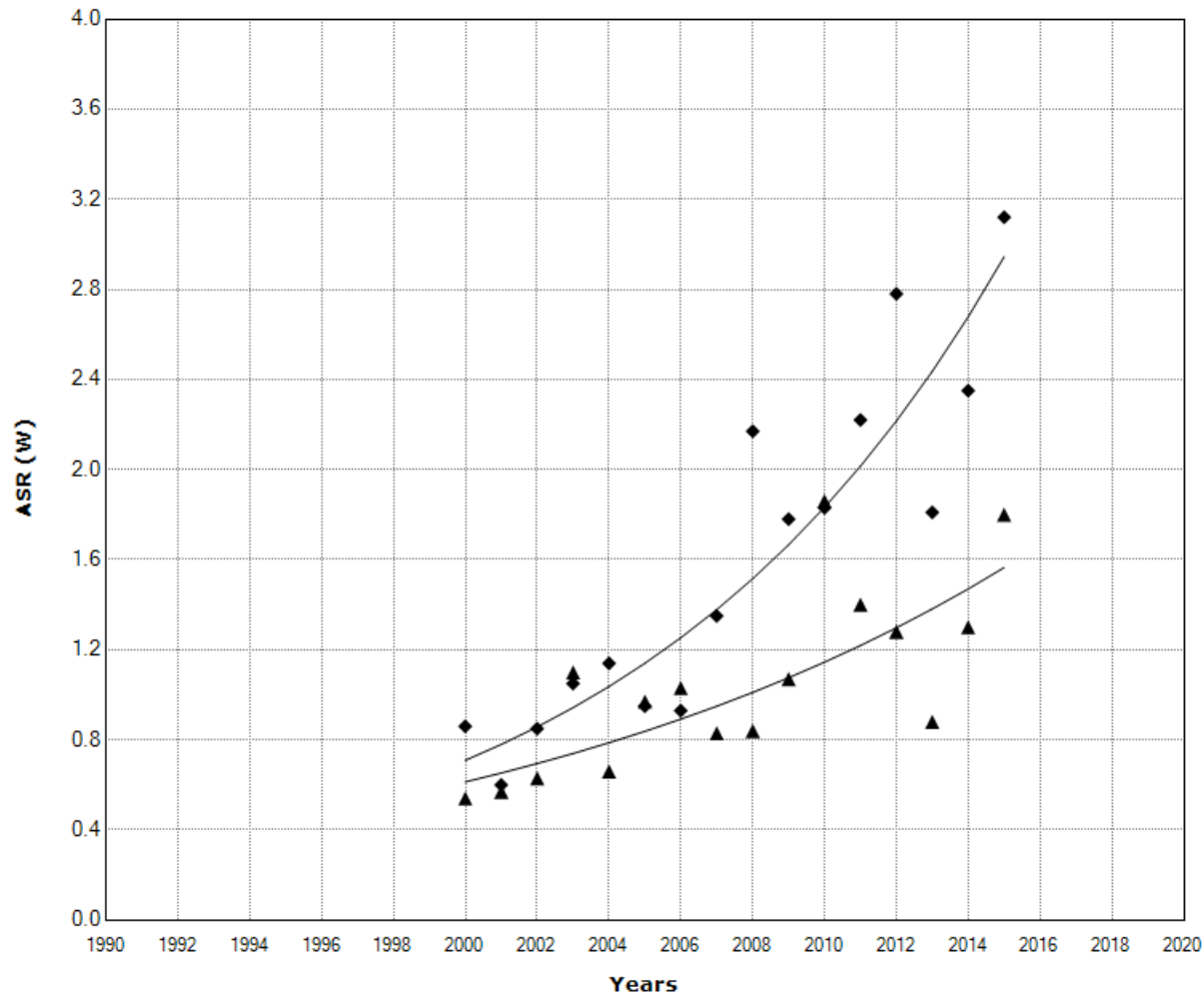
Switzerland: Males: 1 Joinpoint versus Females: 0 Joinpoints



- ◆ Males
- 1991-2005 APC = -0.9¹
- 2005-2017 APC = 0.9¹
- ▲ Females
- 1991-2017 APC = 0.4¹

¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

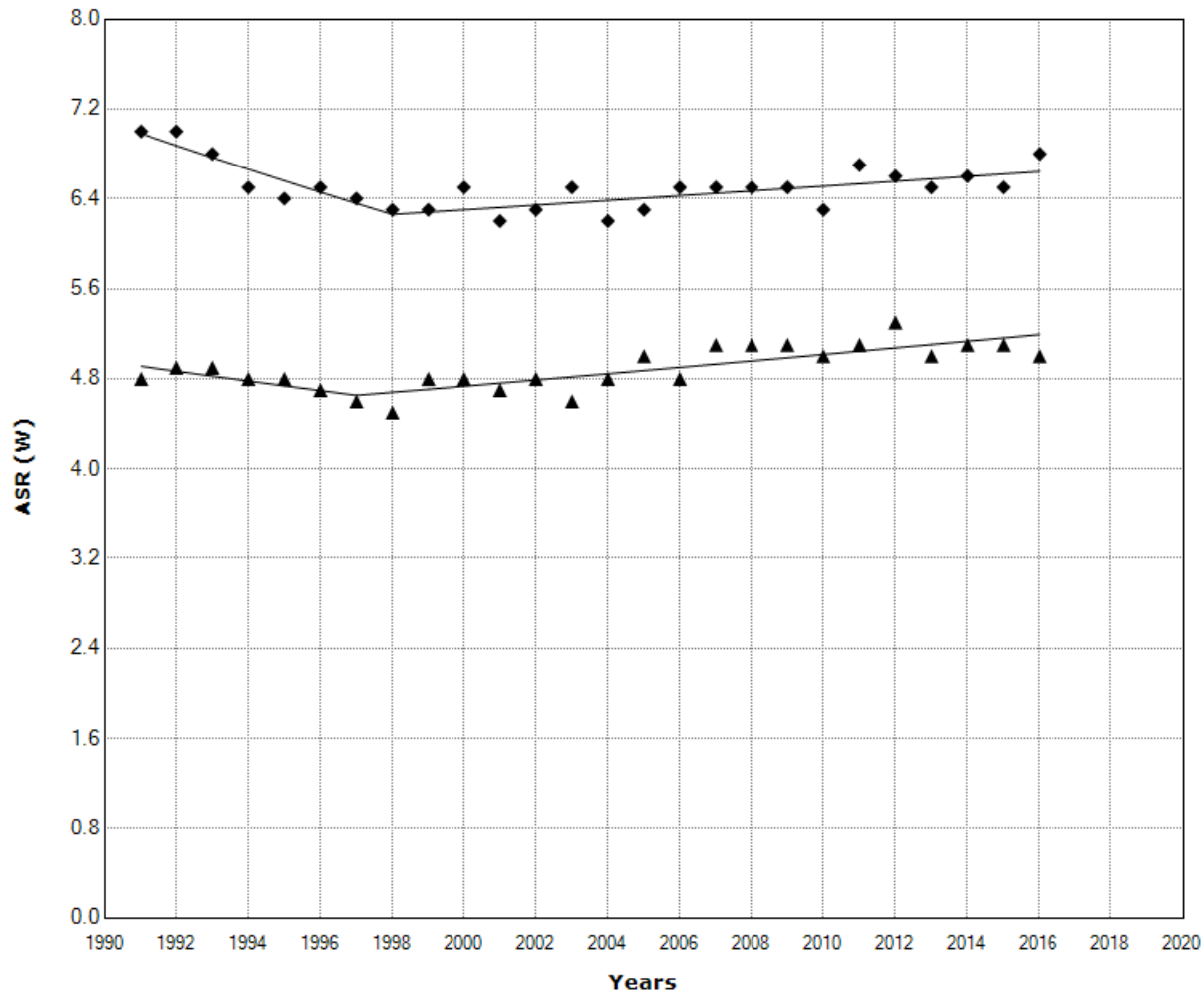
Turkmenistan: Males: 0 Joinpoints versus Females: 0 Joinpoints



◆ Males
 — 2000-2015 APC = 10.0¹
 ▲ Females
 — 2000-2015 APC = 6.4¹

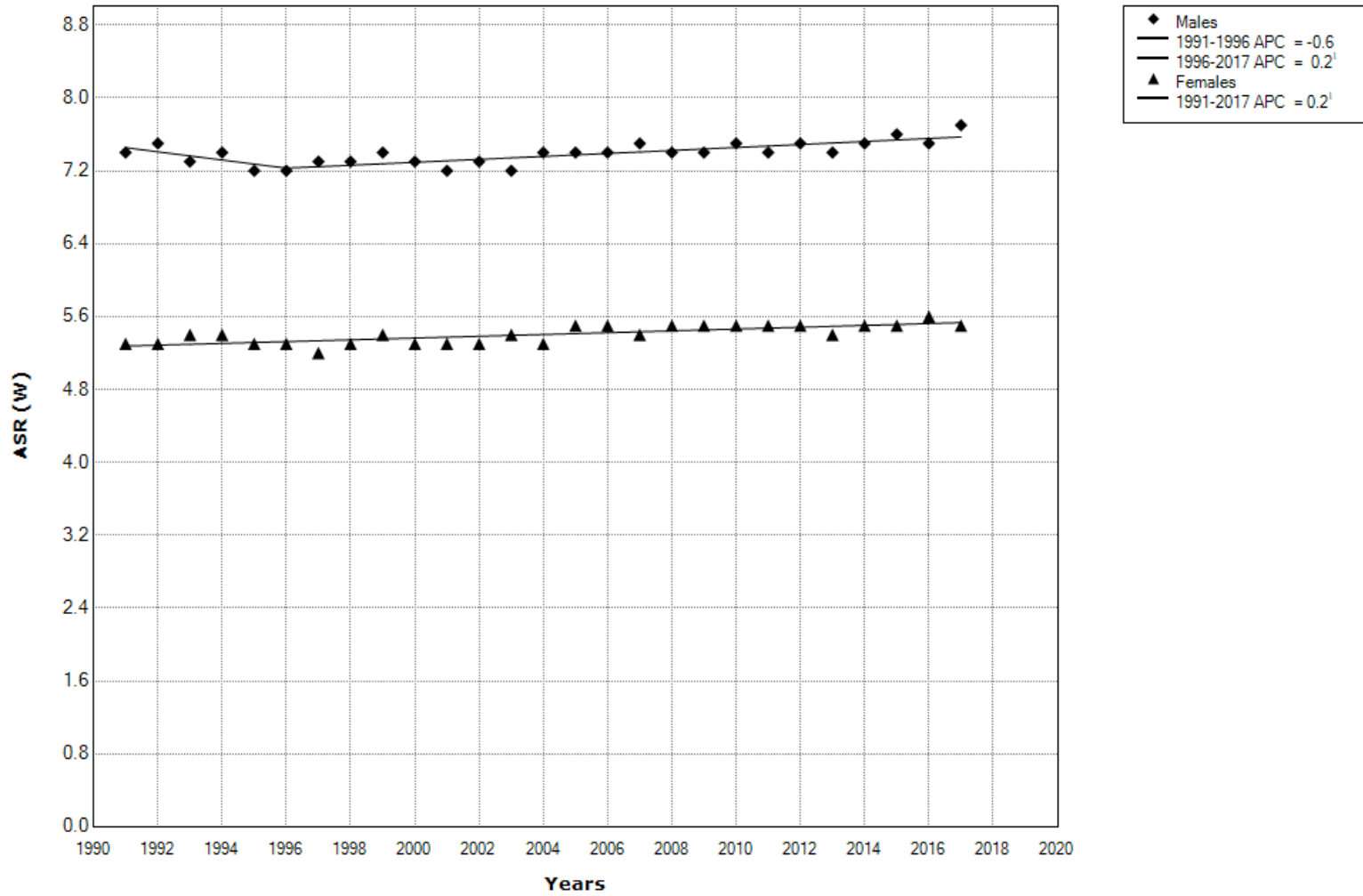
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

United Kingdom: Males: 1 Joinpoint versus Females: 1 Joinpoint



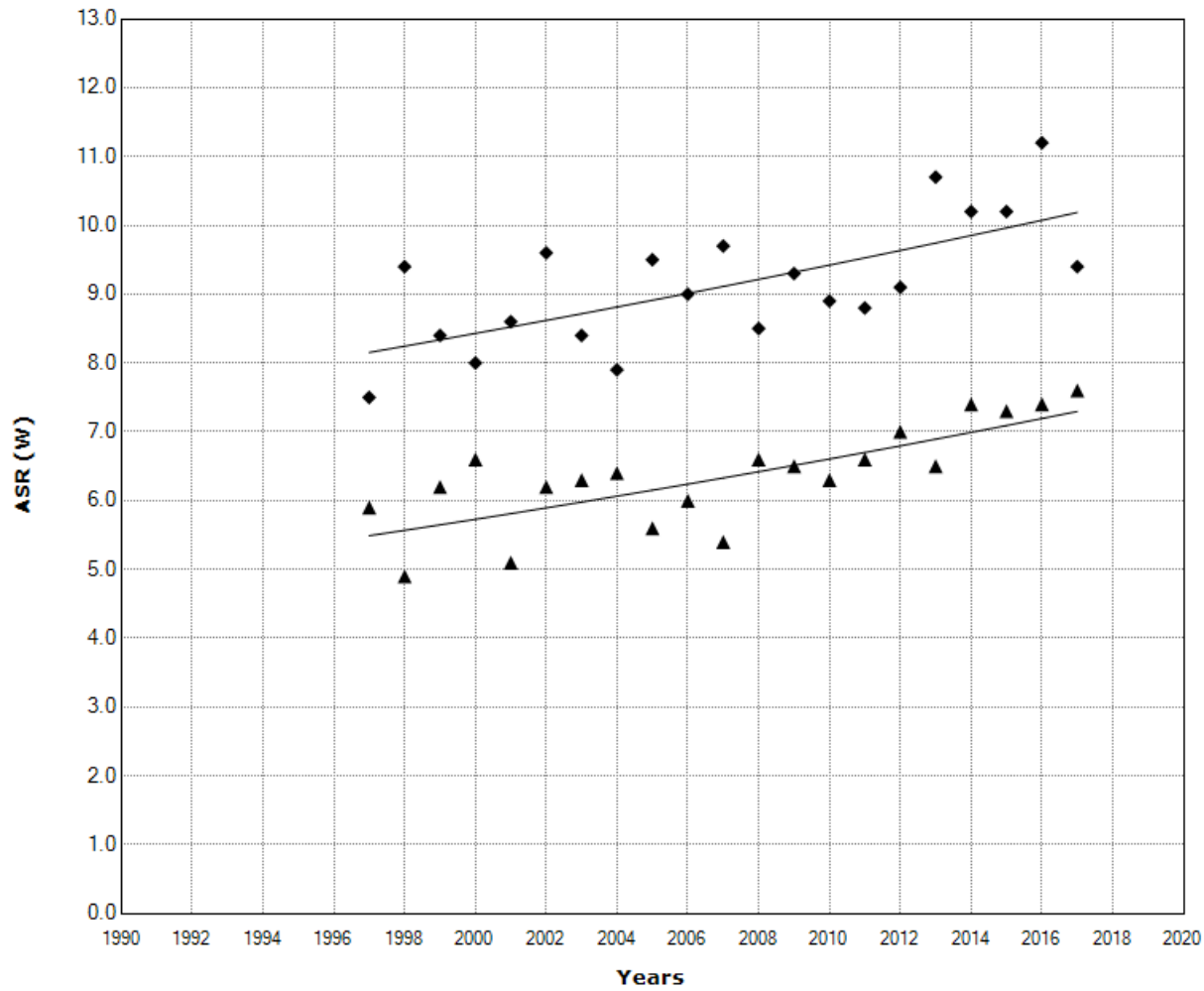
¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 1 Joinpoint. Rejected Coincidence.

United States of America: Males: 1 Joinpoint versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 1 Joinpoint, Females - 0 Joinpoints. Rejected Coincidence.

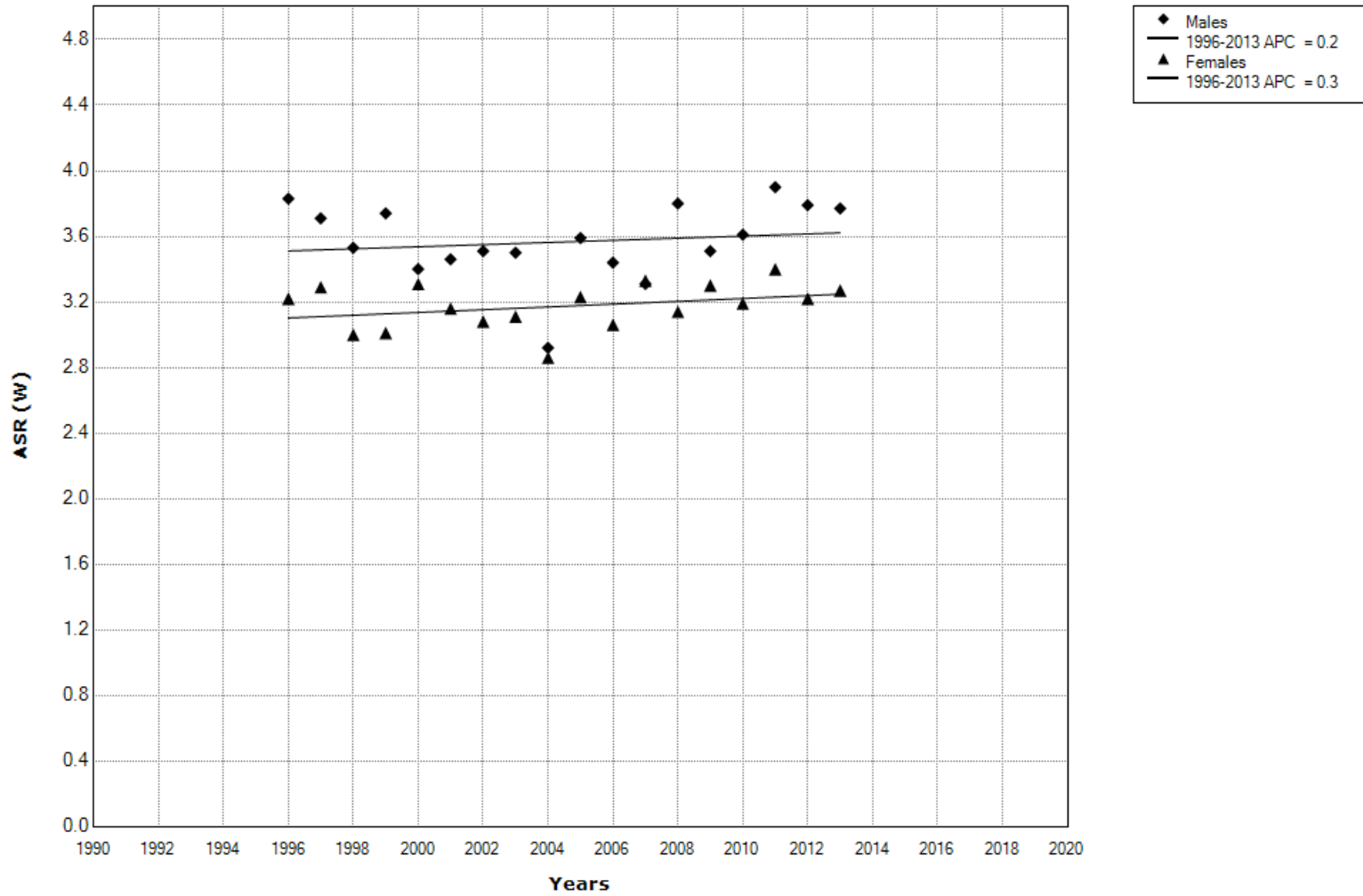
Uruguay: Males: 0 Joinpoints versus Females: 0 Joinpoints



- ◆ Males
- 1997-2017 APC = 1.1[†]
- ▲ Females
- 1997-2017 APC = 1.4[†]

[†]Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Venezuela: Males: 0 Joinpoints versus Females: 0 Joinpoints



¹Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level.
 Final Selected Model: Males - 0 Joinpoints, Females - 0 Joinpoints. Rejected Coincidence.

Supplementary Figure 2 Joinpoint analysis for pancreatic cancer mortality trends, by countries and sex, since 1991 (as per data availability). ASR (W): Age Standardized Rate (using World standard population, per 100000). ¹Statistically significant trend ($p < 0.05$). Joinpoint results are not shown for mortality in some countries, because there was no data for pancreatic cancer in the whole observed period continuously. For the trend analysis, we presented all mortality data available from 1991 year onwards, provided that there has been data for at least 15 years in a row continuously.