



ADAPTING TO CLIMATE CHANGE IN TIME

Extrategias and experiences to increase city
resilience to climate change

With the contribution of the
LIFE financial instrument of
the European Community



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OBJETIVOS DEL PROYECTO ACT

Pretende demostrar que a partir de un proceso participativo, compartido por todos los actores locales involucrados, es posible desarrollar un 'Plan local de Adaptación' que permita hacer frente a la previsión de los impactos tanto socio-económicos como medioambientales del cambio climático en los sectores más vulnerables de las ciudades europeas del arco Mediterráneo.

Objetivos:

- Desarrollar un **proceso estandarizado** para redactar e implementar **estrategias locales de adaptación** al cambio climático fácilmente aplicables por autoridades locales y definir las correspondientes acciones a nivel local.
- **Involucrar** (incrementando su concienciación) **a los actores locales** (industrias, ciudadanos, sistemas sanitarios, protección civil, etc.) en el desarrollo de estrategias de adaptación local.
- Desarrollar y distribuir **guías** que permitan **animar a otras comunidades europeas** (en particular del arco mediterráneo) a adoptar el mismo proceso y desarrollar sus propias estrategias de adaptación local.

PARTICIPANTES (PARTNERS)

Project partners



Municipality of Ancona

Coordinating beneficiary

Municipality of Bullas

Associated beneficiary

Municipality of Patras

Associated beneficiary

Forum of Adriatic and Ionian Cities

Associated beneficiary

ISPRA

Associated beneficiary

WEB DEL PROYECTO: www.actlife.eu

The screenshot displays the website for the ACT project, 'Adapting to Climate change in Time'. The header features a navigation bar with 'Homepage' and 'Contacts', and a banner image of cracked earth. A text box on the right of the banner states: 'With the contribution of the LIFE financial instrument of the European Community' next to the LIFE logo. The main content area includes a logo for 'act' and the project title. A navigation menu lists: Project actions, Project partners, Deliverables, Events & workshops, Photo galleries, and Newsletters. A 'Private area login' form is present with fields for 'Username' and 'Password' and an 'ok' button. Below the header, there are three main sections: 'Project partners' with a map of the Adriatic and Ionian region and a list of beneficiaries; 'ACT! Conference 2010' details including the date '14 December 2010' and location 'Hotel NH Ancona'; and 'Latest news' with several articles and dates.

Homepage Contacts

With the contribution of the LIFE financial instrument of the European Community



Adapting to Climate change in Time

- ▶ Project actions
- ▶ Project partners
- ▶ Deliverables
- ▶ Events & workshops
- ▶ Photo galleries
- ▶ Newsletters

Private area login

Username

Password

Project partners



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ISPRA
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ACT! Conference 2010

ACT - Adapting to Climate change in Time

Strategies and experiences to increase cities resilience to climate change

14 December 2010
Hotel NH Ancona
Rupi di Via XXIX Settembre, 14

Adaptation is, together with mitigation, one of the two concurrent actions that must be undertaken to face the problem of **climate change**. As the IPCC has stated: mitigation aims at avoiding the unmanageable impacts, while **adaptation aims at managing the unavoidable impacts**. It aims at increasing the **resilience** of natural and human systems to current and future impacts of climate change.

Project objectives

Starting from this idea, the project Adapting to climate change in time

Latest news

11-16 March 2011
Resilience 2011: the second international conference on resilience
[Read](#)

15 February 2011
Climate Change may cause massive food disruptions
[Read](#)

18 January 2011
Defra's UK presents climate-proofing plans
[Read](#)

14 December 2010
ACT Conference 2010 Strategies and experiences to increase cities resilience to climate change
[Read](#)

08 October 2010
ACT Workshops on Adaptation: slide available now
[Read](#)

19-21 July 2010
Rome: ACT Workshops on Adaptation
[Read](#)

28-30 May 2010

ADAPTACIÓN AL CC EN BULLAS

- Plan local de adaptación al cambio climático (PLACC)
- Principales sectores a evaluar:
 - ▣ Turismo (enoturismo + turismo rural)
 - ▣ Agricultura (vino) y bosques
 - ▣ Suelo
 - ▣ Biodiversidad
 - ▣ Salud
- Información de base del proyecto:

<http://www.actlife.eu/EN/deliverables.xhtml>

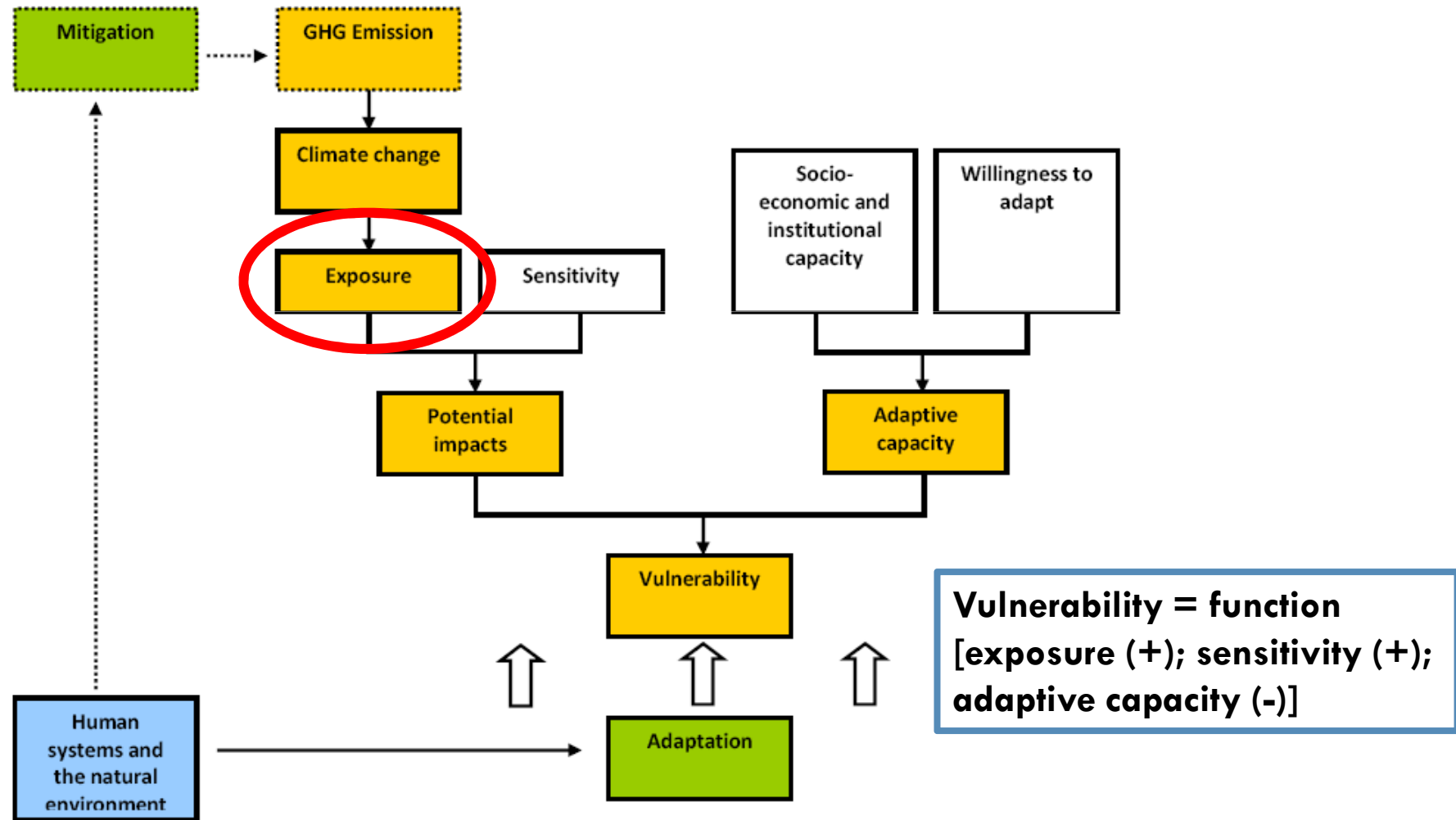


EVALUACIÓN DE LA VULNERABILIDAD LOCAL

PROGRAMACIÓN: (Fase en la que se encuentra el proyecto)

- **1. Project management:** The overall objective of this action is to provide a successful coordination and management of the individual action and activities in order to accomplish the project's goals and objectives within the budget constraints.
- **2. Base line scenario and capacity building:** during this action all the information on existent model and climate forecasting scenarios and on international experiences in local adaptation plans will reviewed and analyzed.
- **3. Local impact assessment :** This action aims at defining a shared methodology for local impact assessment. Local impact assessments will be developed by each city taking into account economic, social and environmental aspects. At the end of this action a road map for local adaptation strategies will be created to guide local authorities in developing a local adaptation strategy.
- **4,5,6 Local adaptation strategies:** In these actions each municipality will establish its own local adaptation board (including the main stakeholders involved) and will develop the actual local adaptation plan. The three cities involved will officially approve their local adaptation plan.
- **7. Evaluation of project results:** During this action project results will be evaluated through a peer review that aims at developing guidelines that can be implemented by other municipalities willing to develop local adaptation plans.
- **8. Communication and dissemination of results:** This last action aims at disseminate and communicate the methodological guidelines developed within the project to a wide range of public.

ELABORACIÓN DEL PLACC DE BULLAS



Fuente: European Environment Agency, 2008. Impacts of Europe's changing climate: 2008 indicator based assessment

ESCENARIOS CLIMÁTICOS

EXPOSICIÓN: PROYECCIONES CLIMÁTICAS (ISPRA)

- Las proyecciones de T^o y precipitación para Bullas han sido extraídas de las rejillas generadas por 3 modelos climáticos regionales RCM (escenario A1B) y 2 globales GCM de alta resolución (escenarios A2 y B1) eligiendo los puntos de rejilla más próximos al área de estudio.



ISPRA

Istituto Superiore per la Protezione
e la Ricerca Ambientale

PROYECCIONES CLIMÁTICAS BULLAS

RCM (T^a máx, min, media,
precipitación)

- CNRM-RM+5.1
- KNMI-RACMO2
- SMHIRCA

GCM (T^a media, precipitación)

- CNRM
- INGV

INFORMACIÓN NECESARIA A NIVEL MUNICIPAL



- Estructura de datos comprensible y manejable
- Orientación en la elección de modelos
- Escala temporal mensual
- Resolución espacial suficiente (incertidumbre)
- Acceso ordenado a la información disponible

MUCHAS GRACIAS



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ANEXO: PROYECCIONES CLIMÁTICAS

Franco Desiato, Andrea Toreti, Guido Fioravanti, Piero Frascchetti, Walter Perconti (ISPRA, Climate and Applied Meteorology Unit)

PROYECCIONES PARA BULLAS

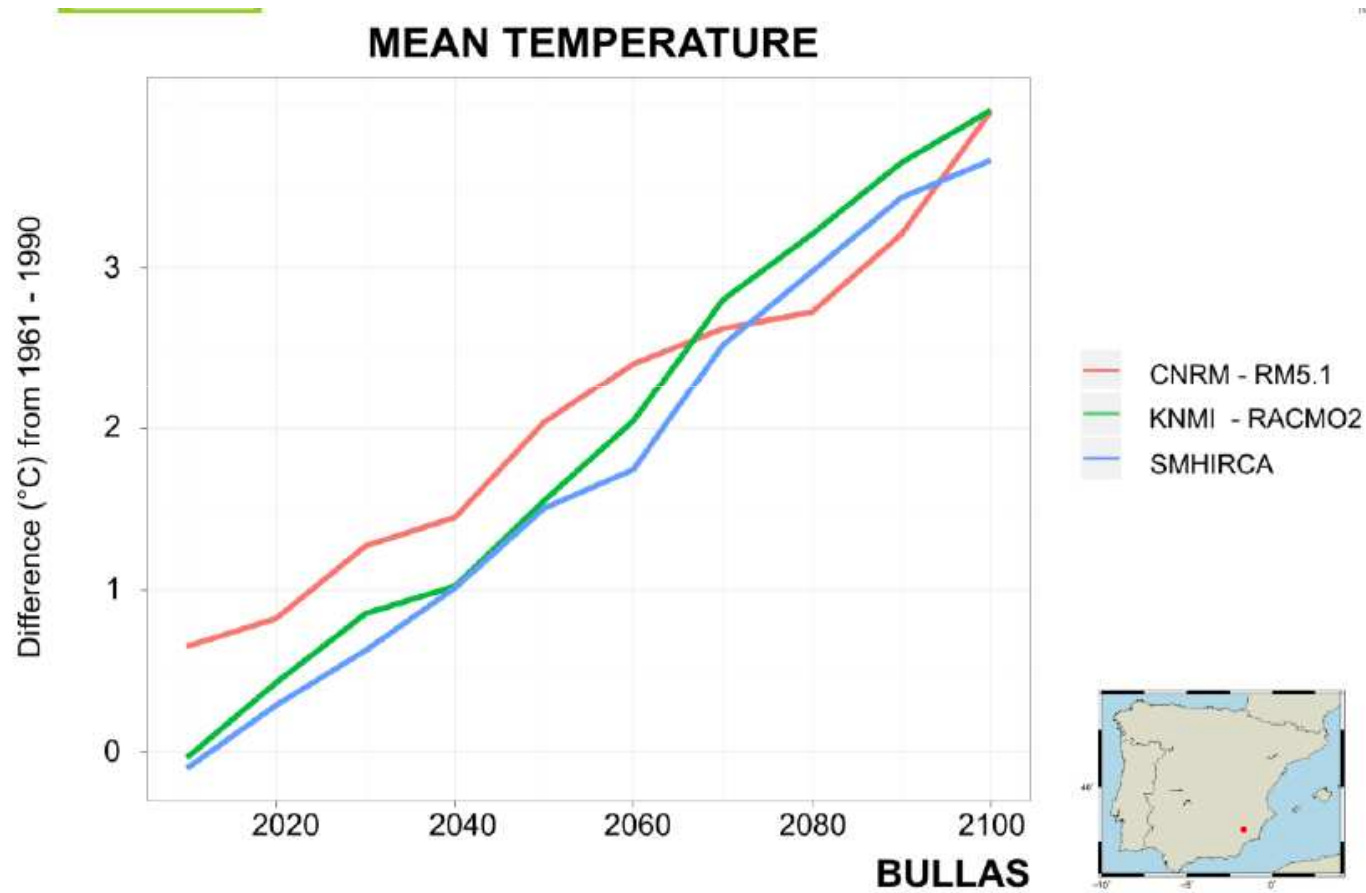


Figure 2.9 Annual mean temperature variation predicted by RCMs (°C)

PROYECCIONES PARA BULLAS

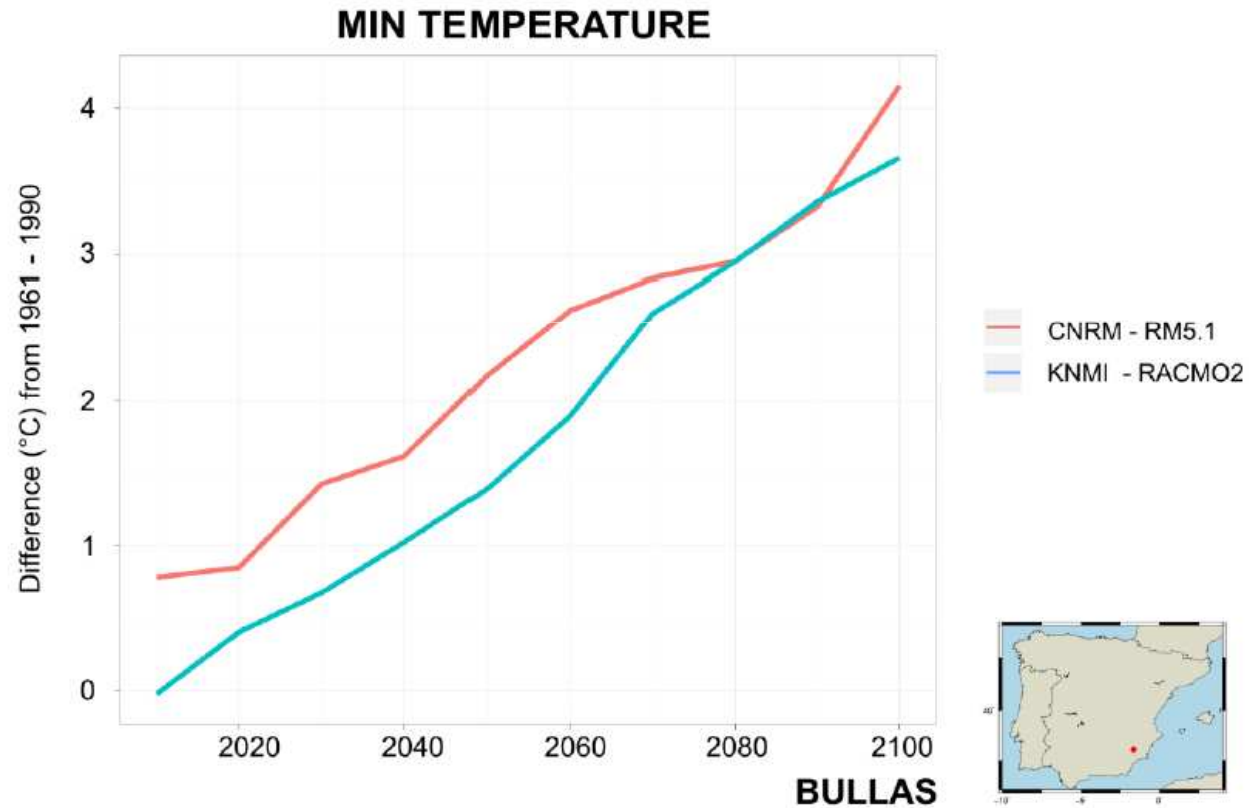


Figure 2.10 Annual minimum temperature variation predicted by RCMs (°C)

PROYECCIONES PARA BULLAS

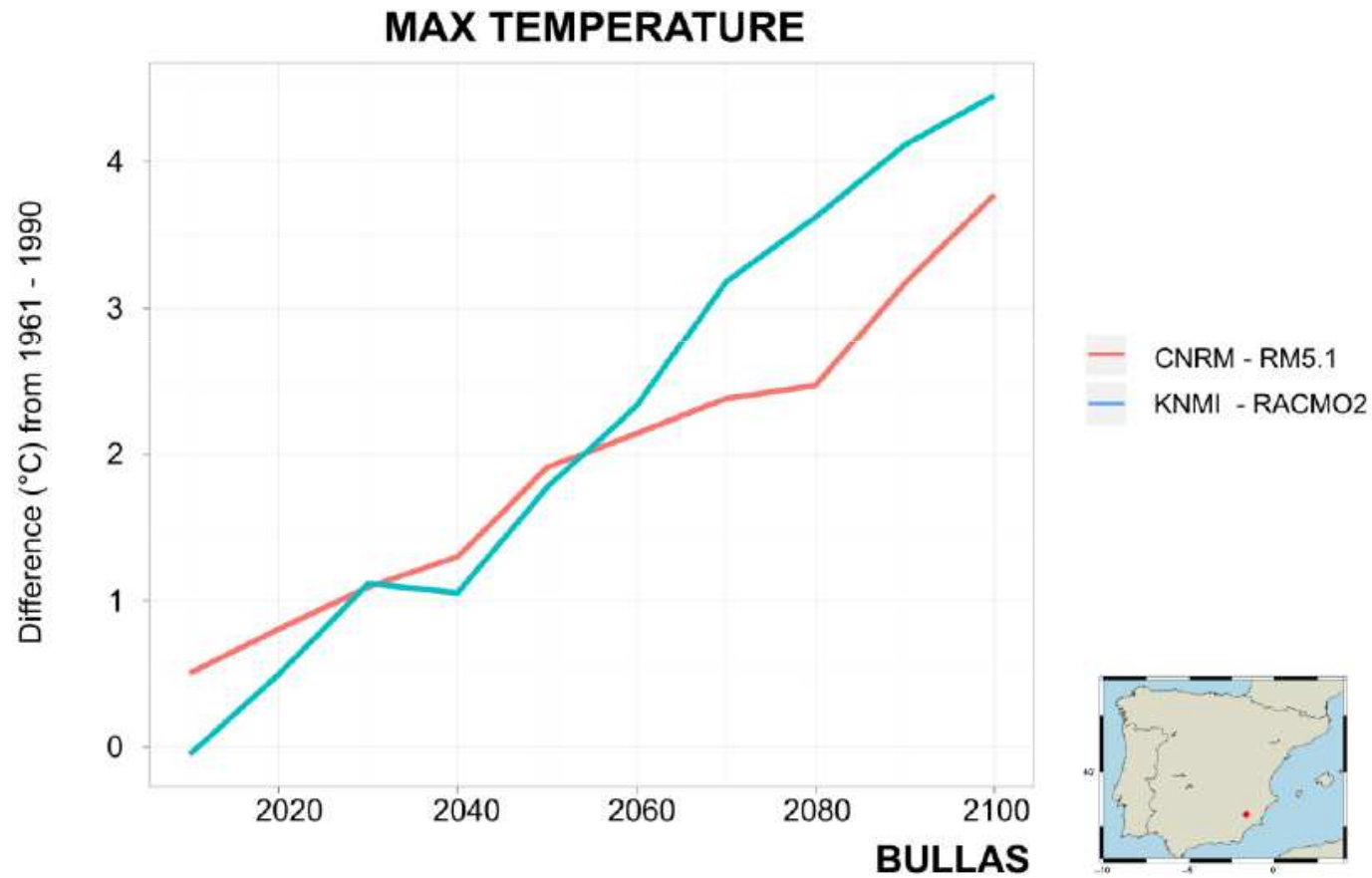


Figure 2.11 Annual maximum temperature variation predicted by RCMs (°C)

PROYECCIONES PARA BULLAS

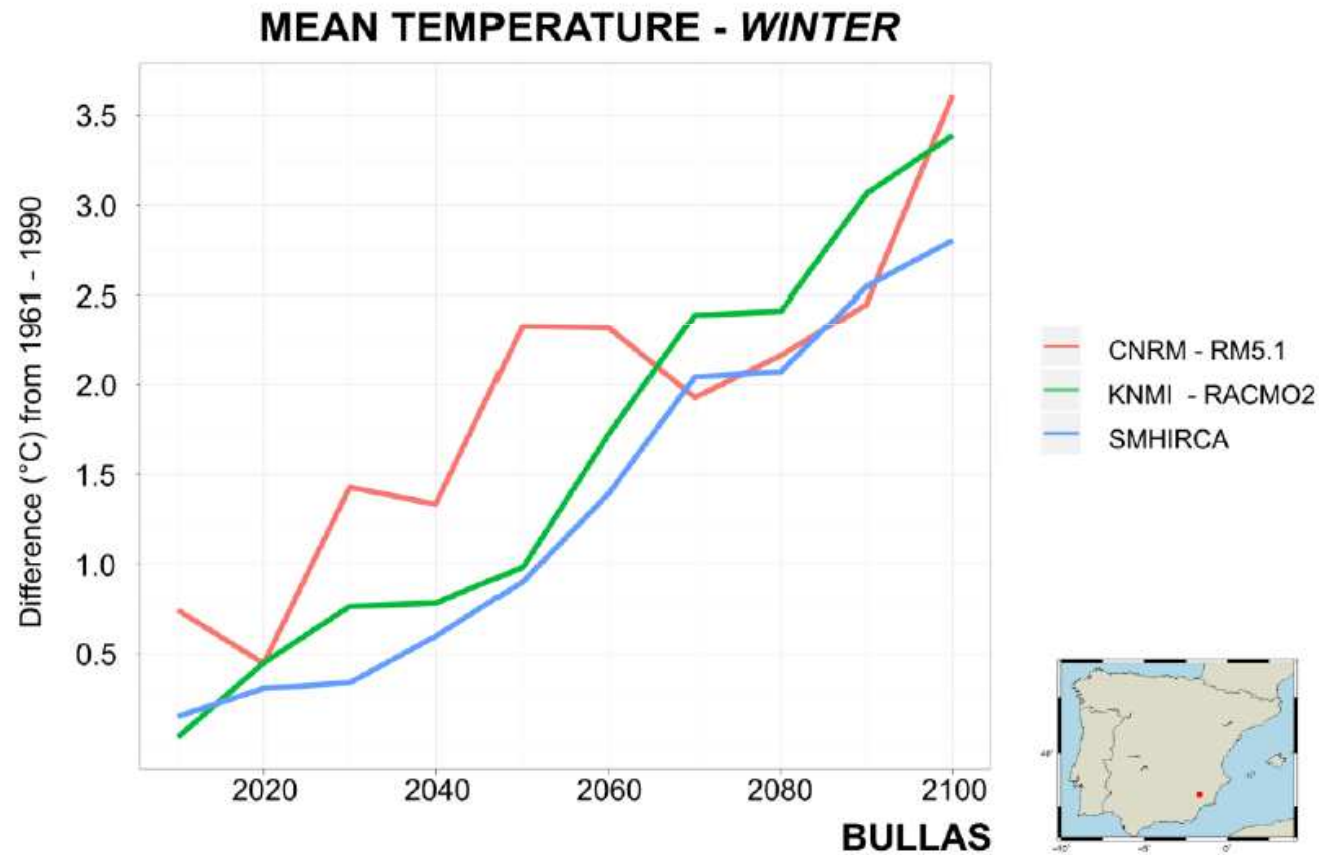


Figure 2.12 Winter mean temperature variation predicted by RCMs (°C)

PROYECCIONES PARA BULLAS

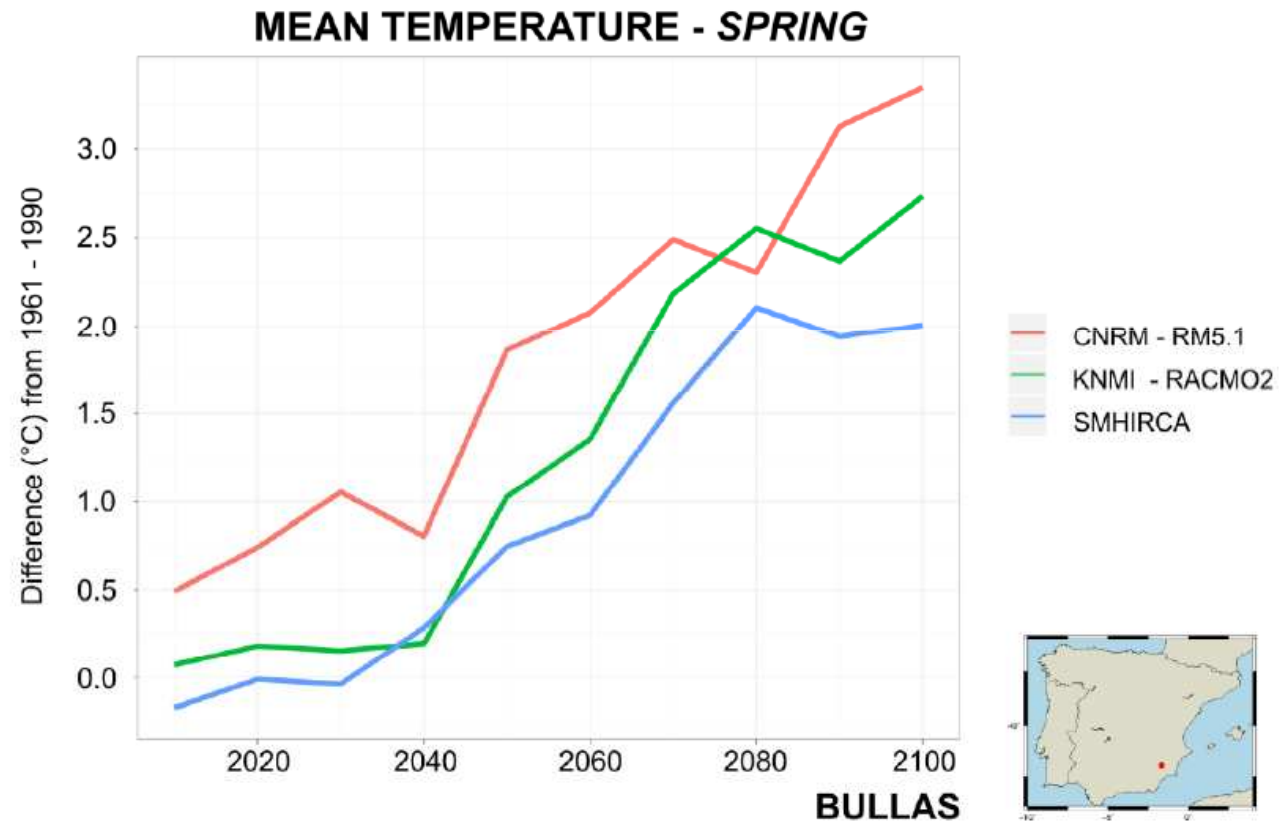


Figure 2.13 Spring mean temperature variation predicted by RCMs (°C)

PROYECCIONES PARA BULLAS

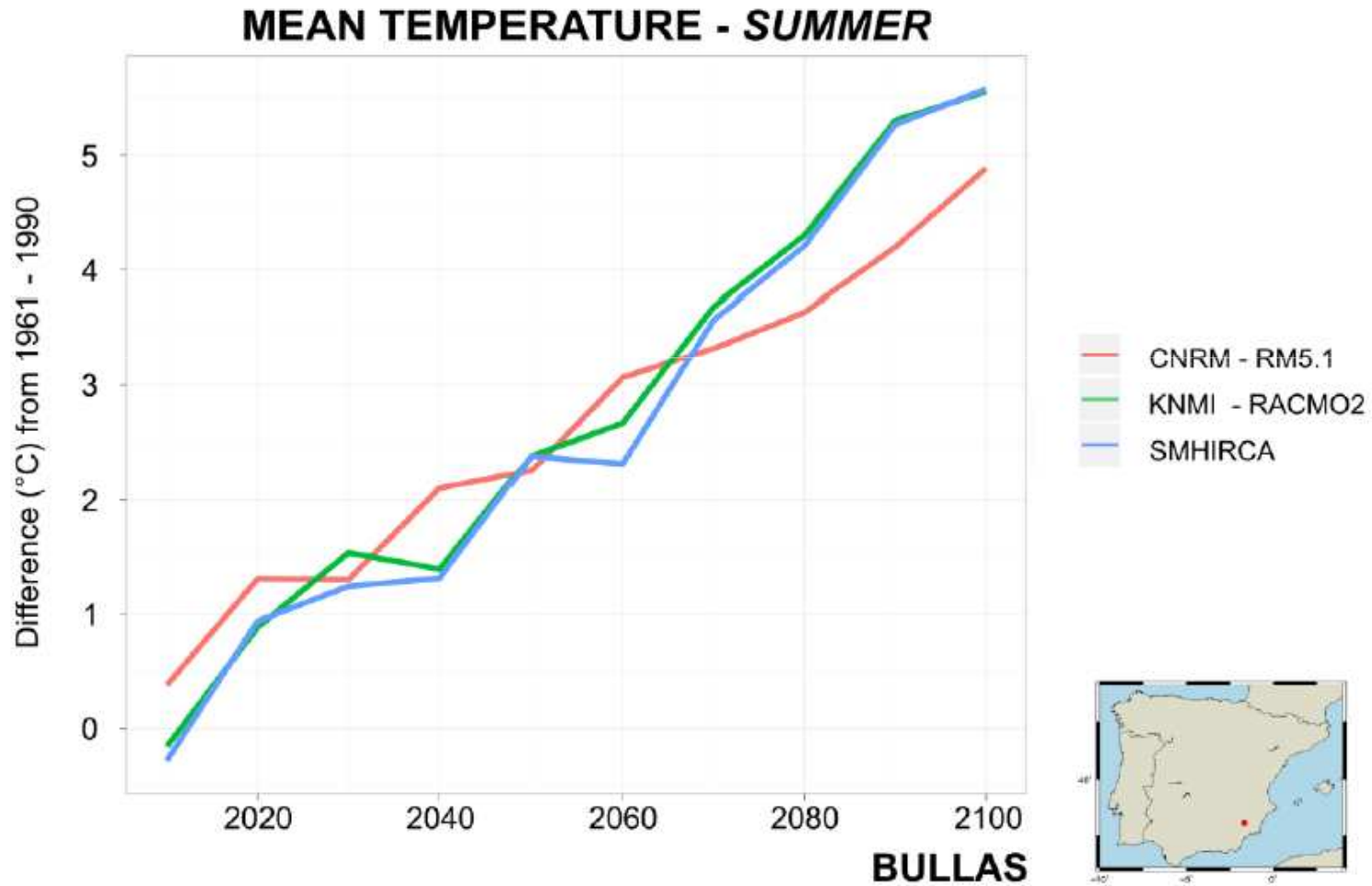


Figure 2.14 Summer mean temperature variation predicted by RCMs (°C)

PROYECCIONES PARA BULLAS

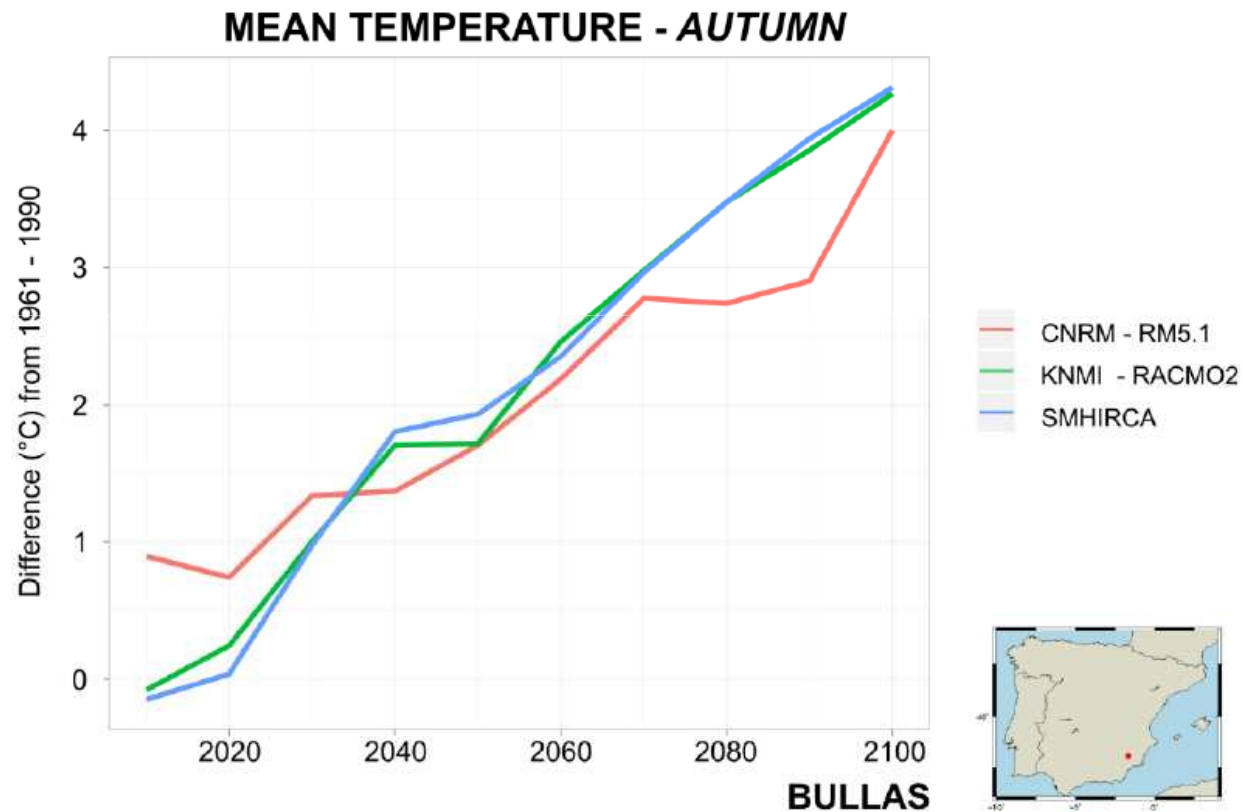


Figure 2.15 Autumn mean temperature variation predicted by RCMs (°C)

PROYECCIONES PARA BULLAS

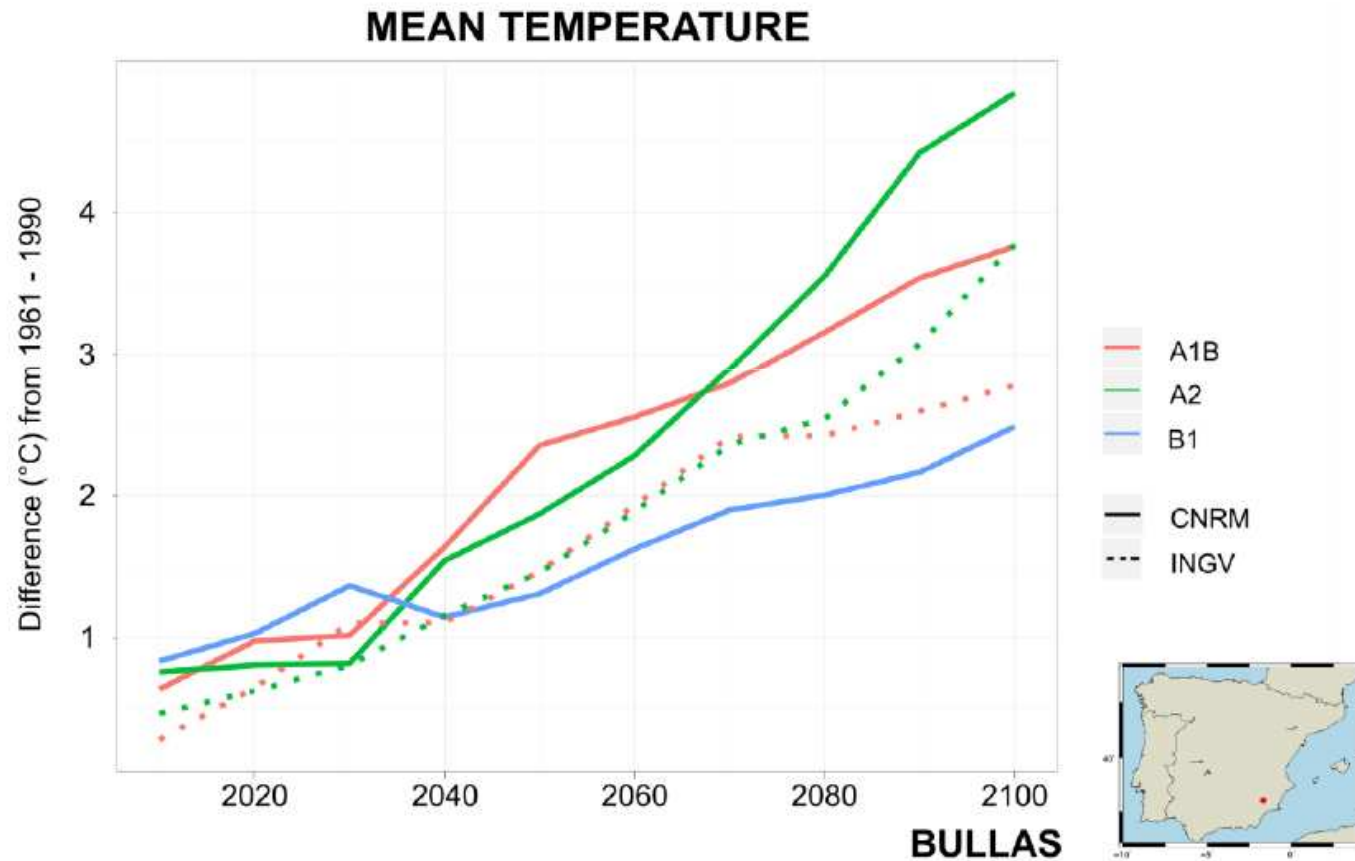


Figure 2.16 Annual mean temperature variation predicted by GCMs (°C)

PROYECCIONES PARA BULLAS

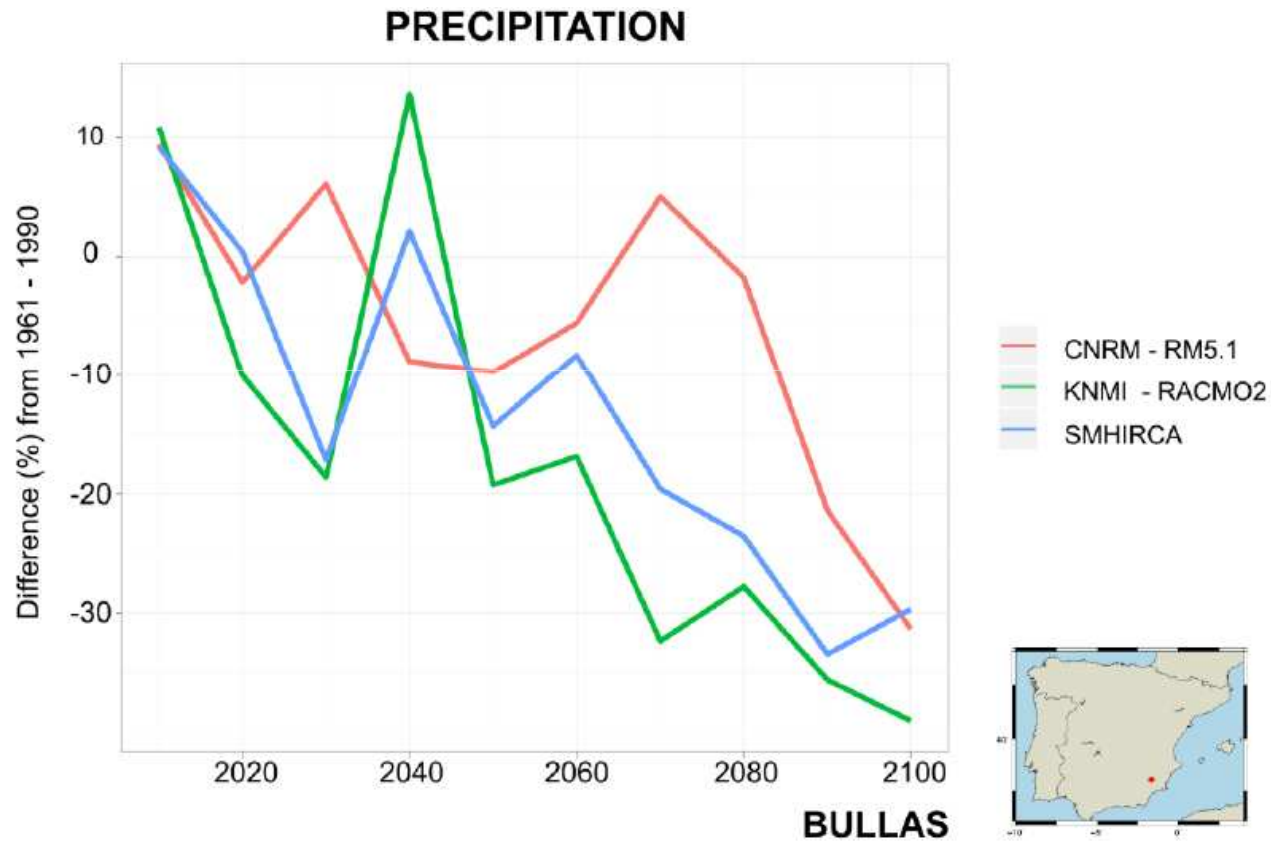


Figure 2.31 Annual cumulated precipitation variation predicted by RCMs (%)

PROYECCIONES PARA BULLAS

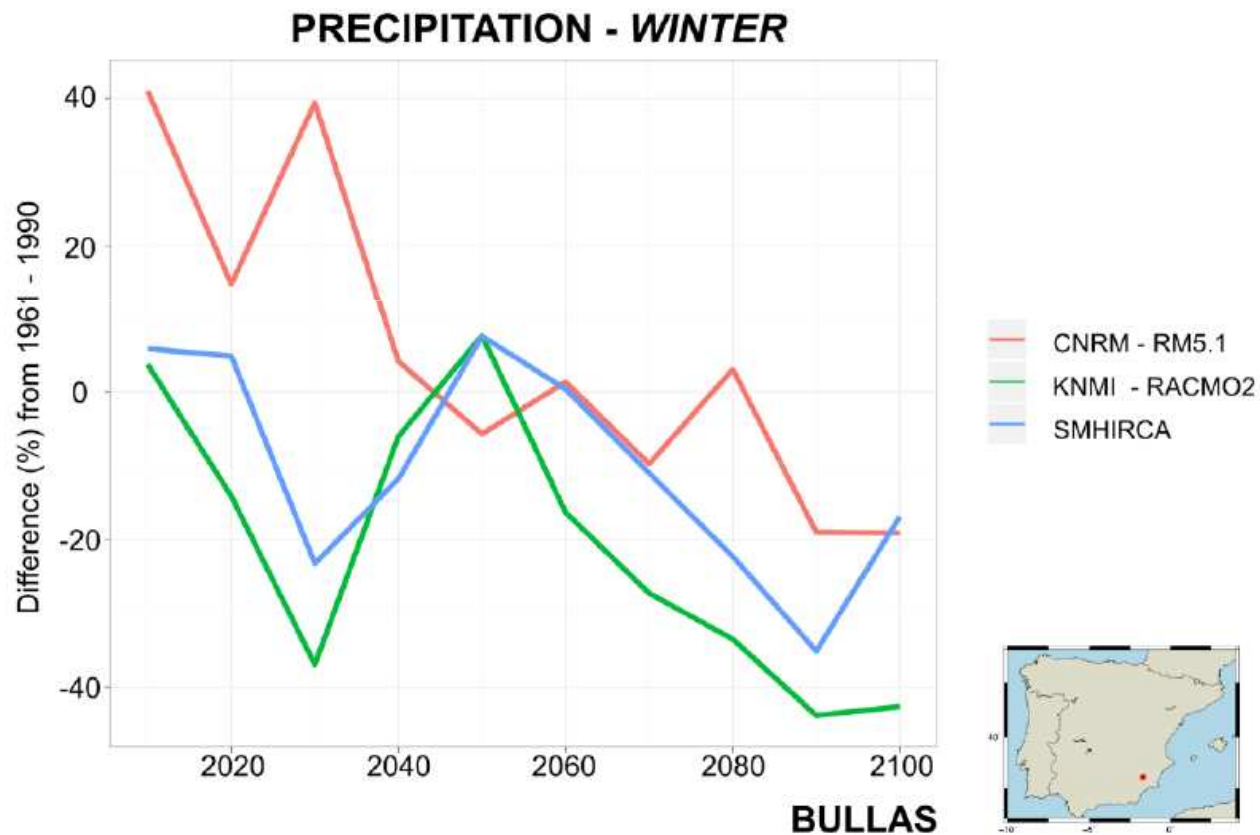


Figure 2.32 Winter cumulated precipitation variation predicted by RCMs (%)

PROYECCIONES PARA BULLAS

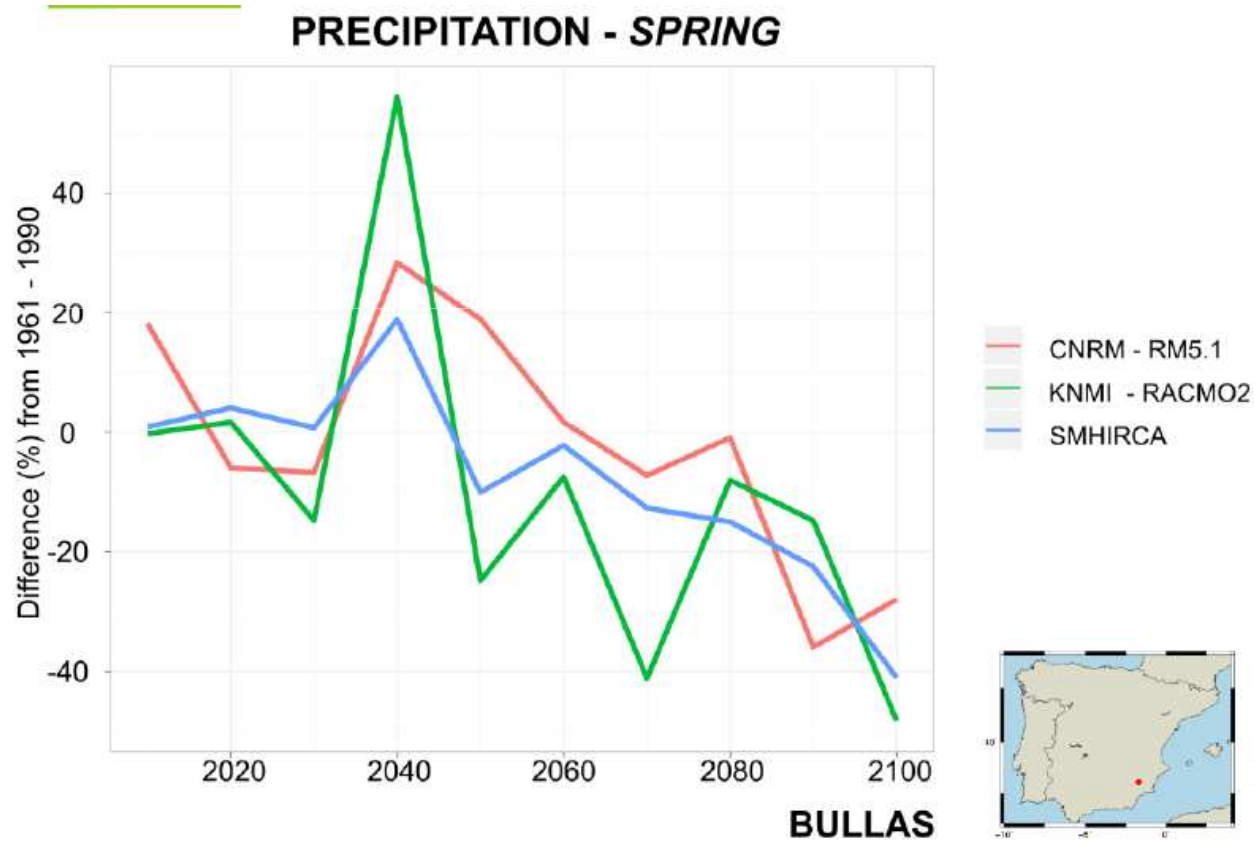


Figure 2.33 Spring cumulated precipitation variation predicted by RCMs (%)

PROYECCIONES PARA BULLAS

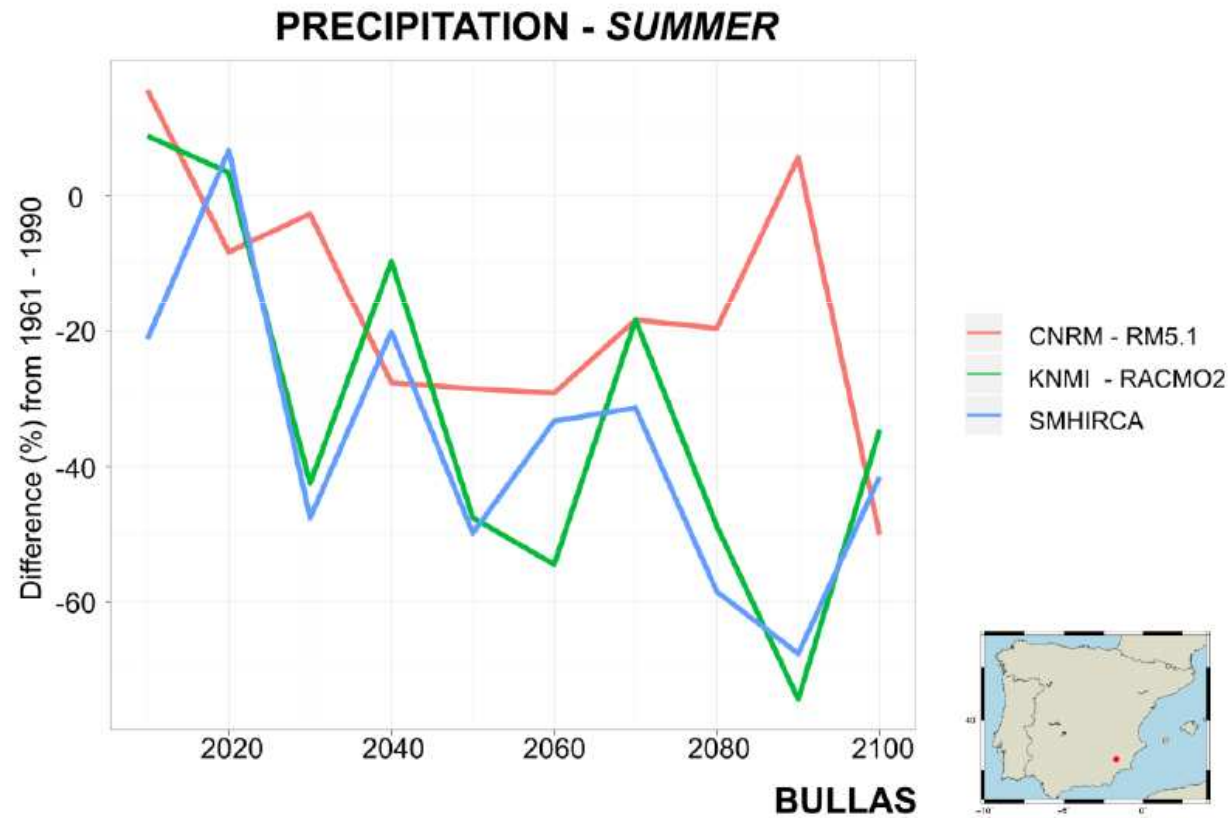


Figure 2.34 Summer cumulated precipitation variation predicted by RCMs (%)

PROYECCIONES PARA BULLAS

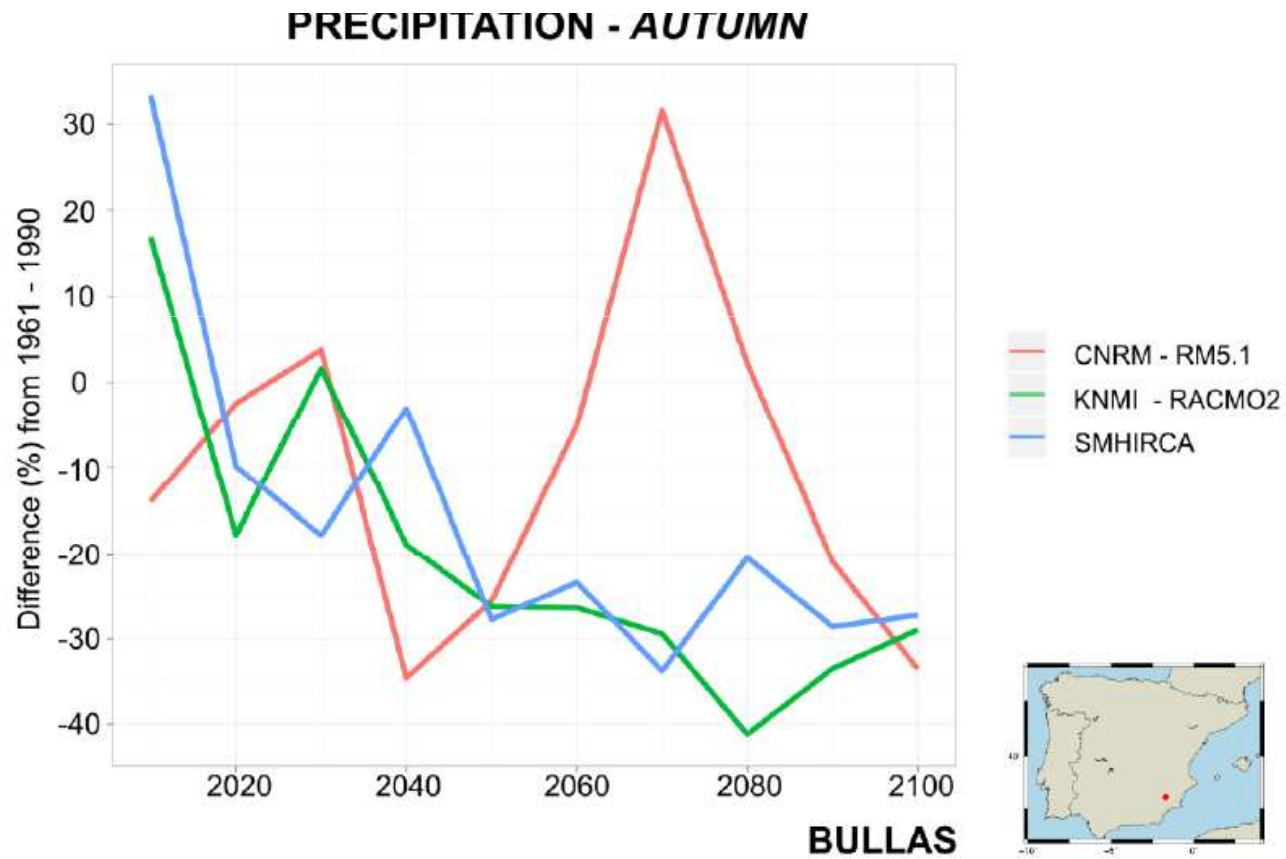


Figure 2.35 Autumn cumulated precipitation variation predicted by RCMs (%)

PROYECCIONES PARA BULLAS

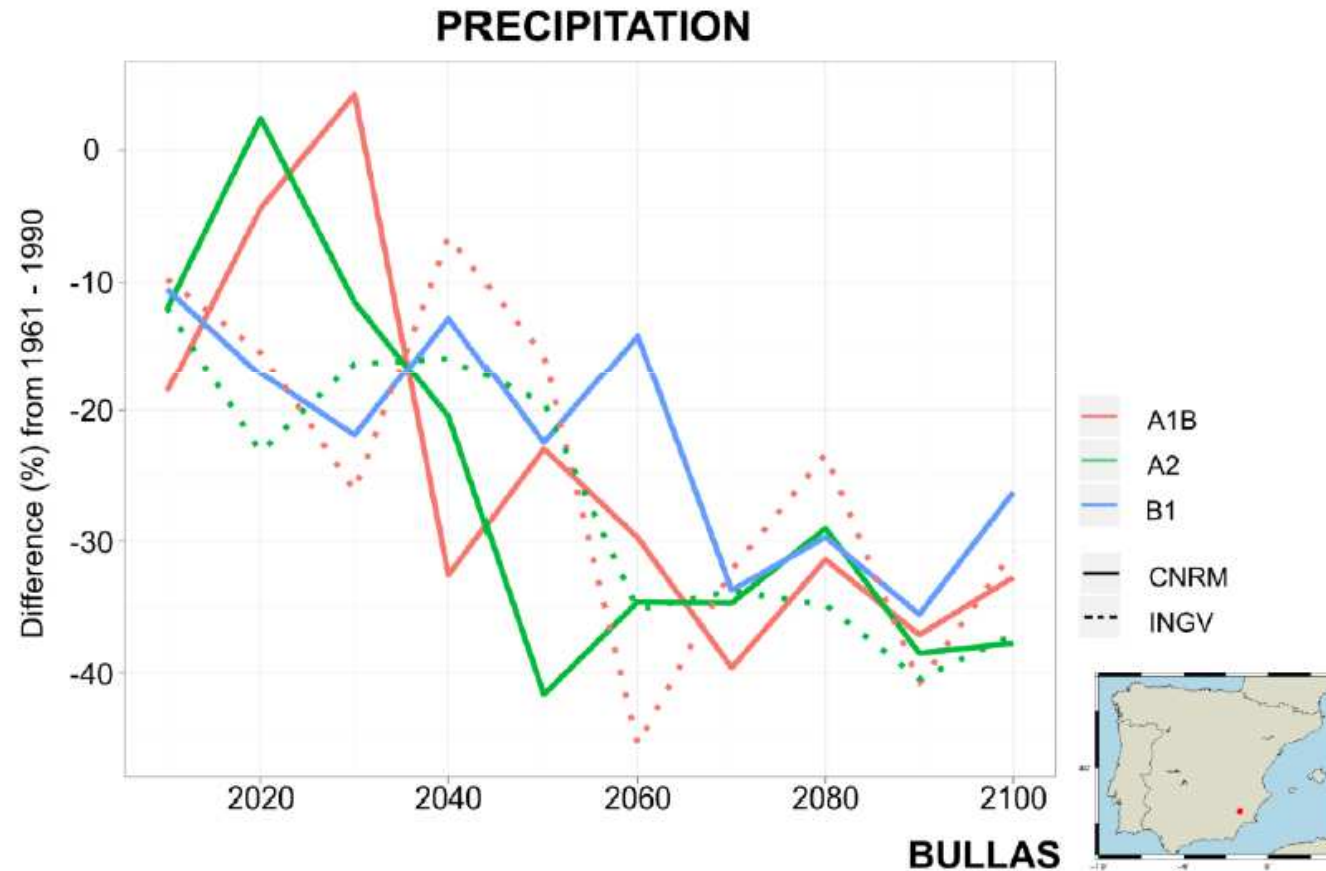


Figure 2.36 Annual cumulated precipitation variation predicted by GCMs (%)