

Communicating Climate Change Research

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SCCIP Private Sector Officer

13 May 2011 – Climate Connections – SNH Conference Centre, Battleby, Perth

“Increase the resilience of organisations and infrastructure in Scotland to meet the challenges and opportunities presented by the impacts of climate change”

- ⇒ Supporting policy framework implementation
- ⇒ Providing adaptation planning support for organisations and communities
- ⇒ Delivering adaptation skills training to help build capacity
- ⇒ A gateway for adaptation information in Scotland
- ⇒ Support the application of the UKCP09 and other key climate information



SCCIP Team

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SCCIP

scottish climate change
impacts partnership



In Scotland, we are already feeling the effects of climate change with rising temperatures and more frequent winter storms impacting on our lives, our environment and the economy.

› [Find out more](#)

Up-coming events

UKCIP webinar series

14/06/10 May - Dec 2010

› [View full event details](#)

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Quick links

- › [Adapting to Climate Change: A Guide for Businesses in Scotland](#)
- › [UK Climate Projections \(UKCP09\)](#)
- › [Climate Change Adaptation in Scotland](#)
- › [SCCIP Newsletter](#)

Welcome to the SCCIP Gateway to Adaptation Information for Scotland

Climate change is happening now. It is one of the most serious threats globally. In Scotland, we are already feeling the effects with rising temperatures and more frequent winter storms impacting on our lives, our environment and the economy.

Much of the change in climate over the next 30 - 40 years is already determined by our past and present emissions. Scotland will be increasingly affected by Climate Change in the future and it is essential that we act now to adapt sustainably and reduce our emissions. [Read more](#)

The Scottish Climate Change Impacts Partnership (SCCIP)

The Scottish Climate Change Impacts Partnership (SCCIP) was established to "increase the resilience of organisations and infrastructure in Scotland to meet the challenges and opportunities presented by the impacts of climate change".

SCCIP news

Adapting to Climate Change in Highland - Consultation open

06/10/10 › [Read full story](#)

September 2010 Newsletter

30/09/10 › [Read full story](#)

New Adaptation Sub-Committee report – How well prepared is t...

29/09/10 › [Read full story](#)

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What needs to happen?

- We need to **plan** effectively for a changing climate,
- We need to we utilise the **best evidence** we have available.
- We need to get to a situation where.....
 - Businesses and public service providers routinely consider climate change impacts when making plans for future growth or improvement
 - Individuals and communities recognise potential climate impacts and take action to protect themselves and seize opportunity



The Best Evidence

- UKCP09 is the product of a very large undertaking by the climate science community...
- The result of seven years of work by the Met Office Hadley Centre, UK Climate Impacts Programme and a body of over thirty contributing organisations.”

Where to Start?



- Home
- What is UKCP09?
- Maps & key findings
- Reports & guidance
- Case studies
- Index

What is UKCP09?

Are you new to adaptation? UKCIP can help...

[Go to our essential guide to what you need to know about UKCP09](#)

- ### Popular pages
- ▶ [About the climate change projections](#)
 - ▶ [FAQ & FAQ search](#)
 - ▶ [Training & online courses](#)
 - ▶ [Briefing report](#)
 - ▶ [User Interface \(external website\)](#)
 - ▶ [Sea level rise](#)
 - ▶ [Observed trends](#)
 - ▶ [Quick downloads](#)

Funded by:

Features



What is climate change adaptation?

If you are new to climate change & climate change adaptation, go to the


Updates

- ▶ [Weather Generator 2.0 webinar recording now online. March 2011](#)
- ▶ [Weather Generator version 2.0](#)



... then you can go further

defra | Other defra.gov.uk sites [Contact Defra](#) | [Defra news](#) | [Defra site A-Z](#)



[Start page](#) | [My jobs](#) | [My details](#) | [UI manual](#) | [UKCP09 website](#) | [Helpdesk](#)

You are here: > [Request Builder](#) > [Data Source selection](#)


Logged in as:
joseph.hagg@se...
[Logout](#)

Logged in users:
16

Request Status:







Request Summary:

Selecting your data source

This step allows you to select the data source  you wish to use in your request according to the type of climate information you are interested in. After selecting a data source you will be presented with a list of climate variables that are available for selection within that data source.

Note that your selection of data source cannot be changed on subsequent pages without beginning a new request.

[Read about the different pathways through the system in the UI Manual depending on which data source you select.](#)

- UK Probabilistic Projections of Climate Change over Land 
- UK Probabilistic Projections of Climate Change over Marine Regions 
- Weather Generator Simulations 
- Past and Future Multi-level Ocean Model Simulations for UK Waters 
- Projections of Trend in Storm Surge for UK Waters 
- Projections of Sea Level Rise for UK Waters 

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UKCP09 provides is a comprehensive dataset for climate change in Scotland – it addresses many of the short-coming of previous projections – and has responded to user demands for more information – it has delivered – but for many it has delivered too much!!!!

... or not quite what they expected?

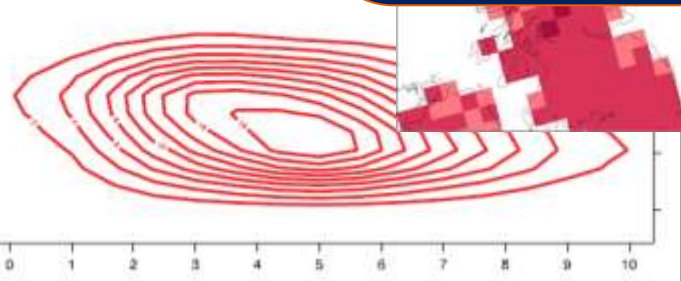
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Key Findings

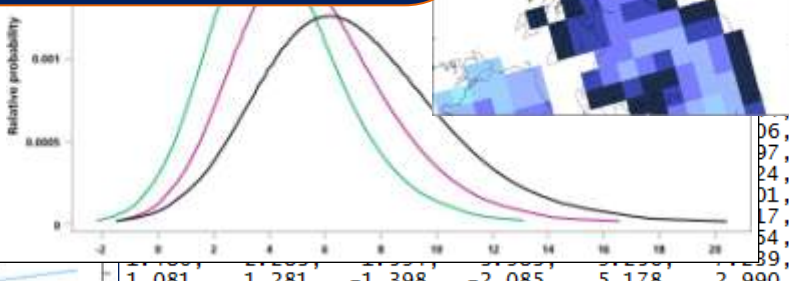
IT CAN BE OVERWHELMING!



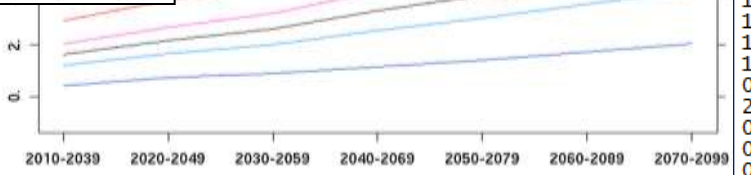
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1.068, 0.996, 0.870, 0.282, 0.584, -1.190, -2.292, 5.499, 16.802,
3.482, 1.373, 1.867, 1.299, 2.818, -0.155, -7.863, 4.513, -8.009,
1.426, 0.391, 0.856, 1.050, 1.707, 0.745, -1.301, 1.546, 5.732,
0.867, 0.946, 0.709, 0.596, 1.079, -0.727, -0.556, -0.268, 7.557,
2.054, 1.360, 1.168, 1.881, 1.908, 1.114, 0.871, 15.030, 21.756,
1.050, 1.112, 0.926, 0.955, 0.622, 0.081, -4.392, 13.413, 14.394,
-7.894, -5.709,
-8.168, -0.690,
7.086, 16.553,
9.485, 23.456,
18.859, -5.445,
-2.530, 5.544,
-2.530, 5.544,
28.150, 20.206,



0.838, 1.504, 0.454,
1.542, 0.937, 1.809,
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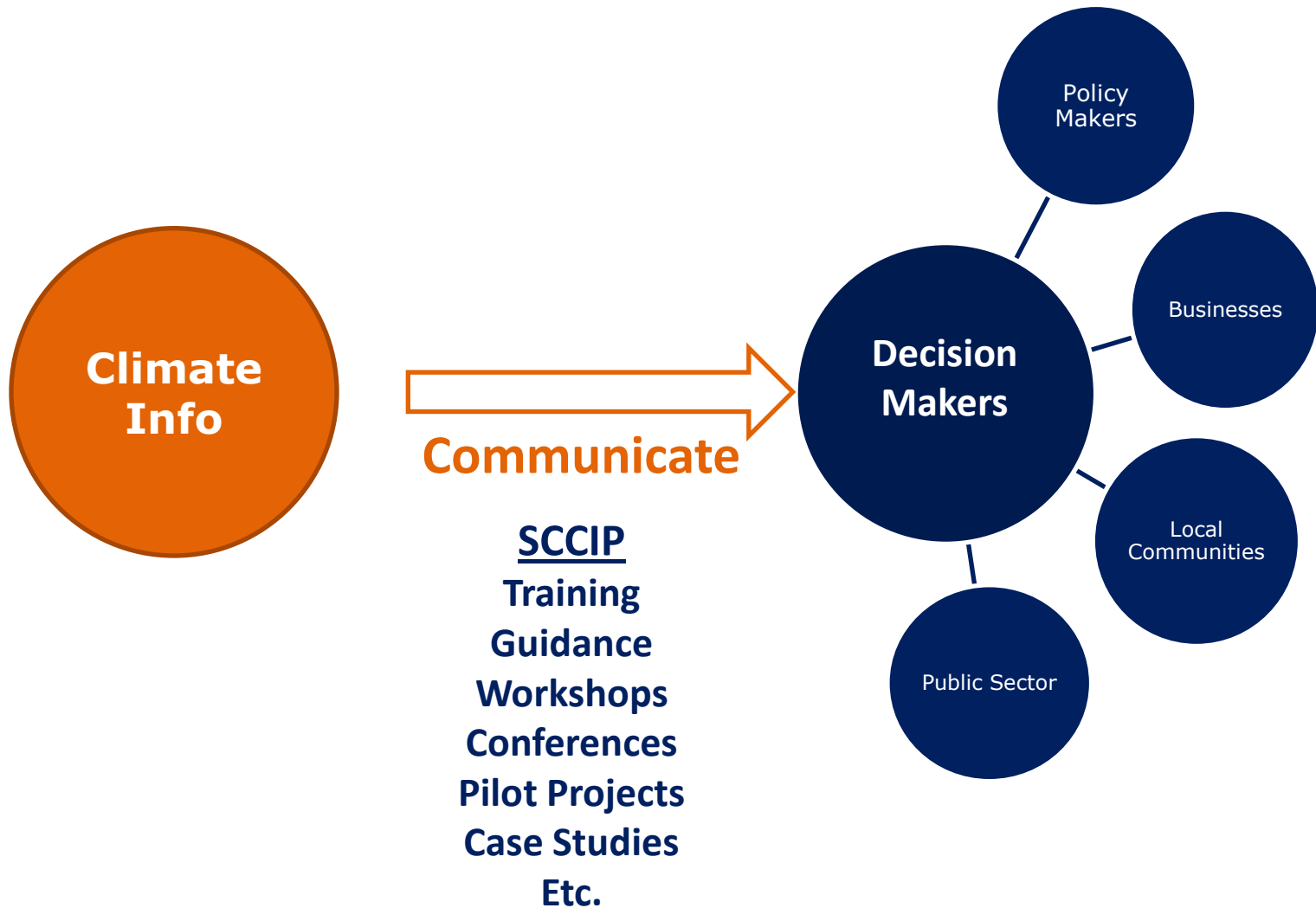


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data section, 321.000, 10.947, -10.716



1.081, 1.281, -1.398, -2.085, 5.178, 2.990,
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1.139, 0.691, -0.246, -5.346, -7.349, 0.563,
1.091, 1.605, 1.649, -1.971, 3.462, -15.141,
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2.618, 3.037, 0.104, -2.363, 1.234, 9.541,
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1.265, 2.022, -0.347, -6.275, 1.511, -6.726,

The Challenge

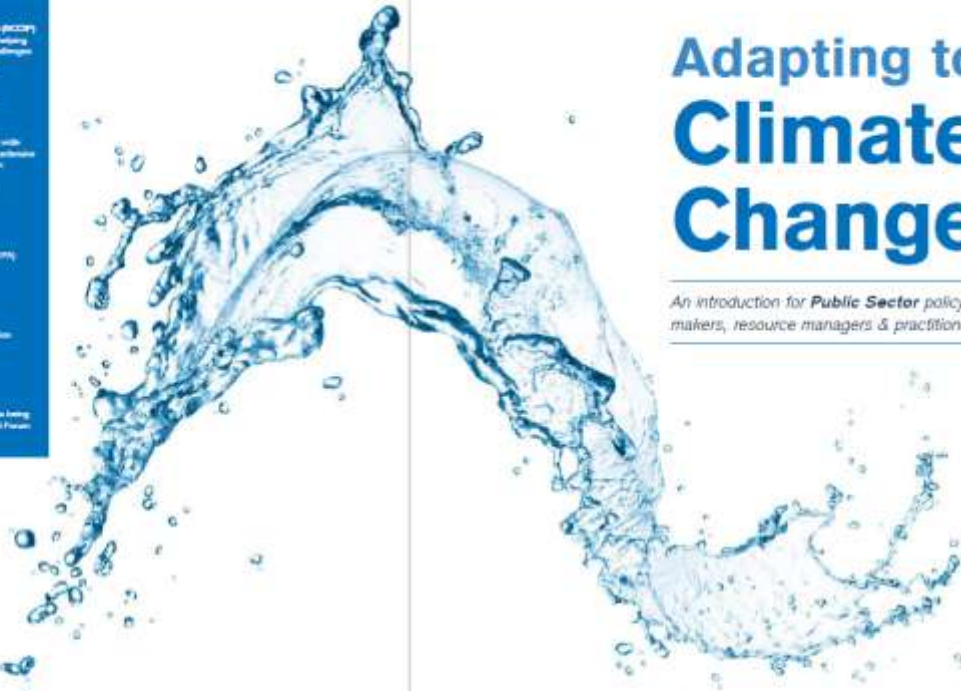


What does it mean for me?

- My sector?
- My policy area?
- My business /organisation?
- My community?
- My process?



SCCIP Guidance – Public & Private Sectors



INFORMATION AND SUPPORT

Scottish Climate Change Impacts Partnership (SCCIP)
SCCIP provides information and tools aimed at helping organisations understand and respond to the challenges and opportunities presented by climate change.

CONTACT SCCIP:
e: scsip@sniffer.org.uk t: 0131 567 3161
w: www.sccip.org.uk

SCCIP benefits from the advice and expertise of a wide range of partner organisations all of which provide extensive information in support of climate change adaptation.

- UK Climate Impacts Programme (UKCIP) www.ukcip.org.uk
- UK Climate Projections www.met.rdg.ac.uk/~climateprojections/ukcp09a.html
- Scottish Environment Protection Agency (SEPA) www.sepa.org.uk
- Sustainable Scotland Network (SSN) www.sustainable-scotland.net
- Scottish Government www.scotland.gov.uk/topics/climatechange/impacts

SNIFFER
SCOTTISH CLIMATE CHANGE IMPACTS PARTNERSHIP

The SCCIP programme of work 2009-2011 is being delivered by The Scottish & Northern Ireland Forum for Environmental Research (SNIFFER).


Adapting to Climate Change:

An introduction for **Public Sector** policy makers, resource managers & practitioners

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Adapting to Climate Change:

A Guide for Business in Scotland

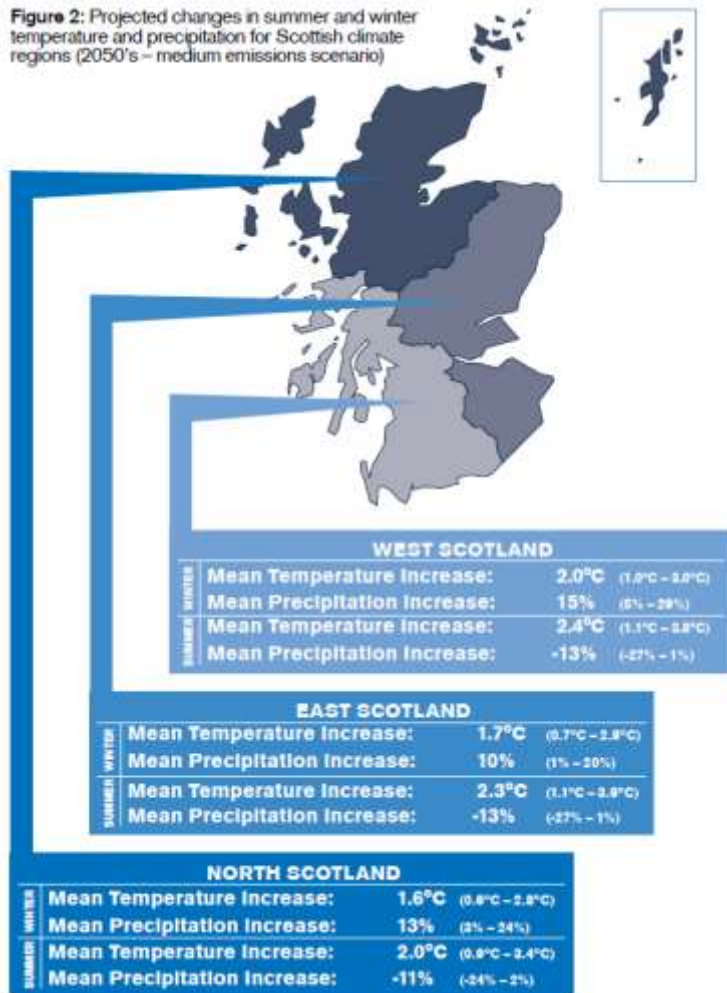


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Key Climate Messages for Scotland

Figure 2: Projected changes in summer and winter temperature and precipitation for Scottish climate regions (2050's – medium emissions scenario)



The key climate change trends for Scotland are:

- Hotter, drier summers
- Milder, wetter autumn and winters

We can also expect to see:

- Increase in summer heat waves, extreme temperatures and drought
- Increased frequency and intensity of extreme precipitation events
- Reduced occurrence of frost and snowfall
- Sea level rise

'High Level' Messages about Impacts

SERVICE AND INFRASTRUCTURE IMPACTS: IMPORTANT MESSAGES

- | **The natural environment has a critical role in responding to the challenges of climate change**
- | In a changing climate action is required to secure the ecosystem services that support the economy and contribute to the quality of life in Scotland, as well as reducing vulnerability to the impacts of climate change.
- | Local initiatives include the promotion of green networks which include space for natural flood management and wildlife corridors.

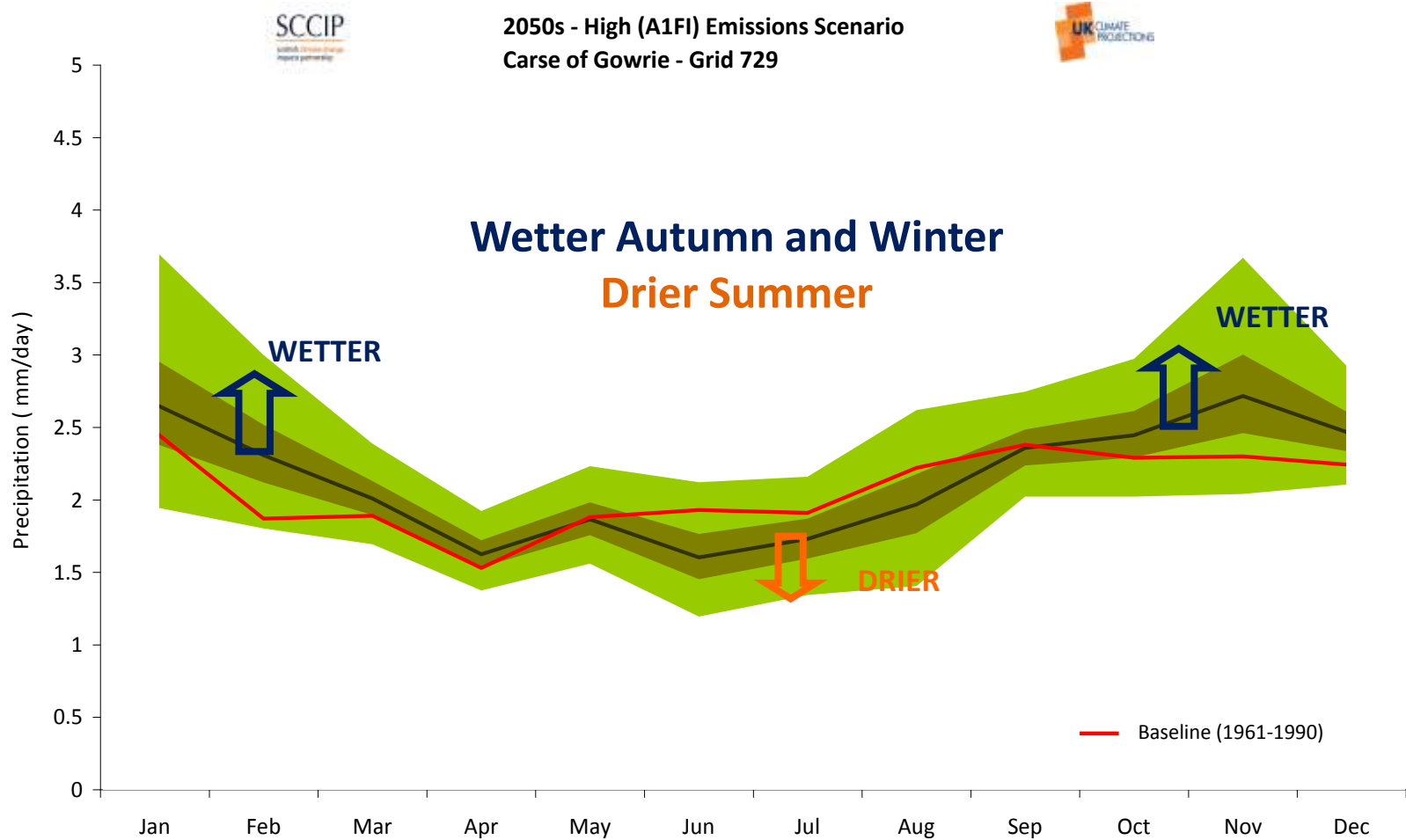


But for effective adaptation we require the detail...

Need to work out what is most relevant to you...
and how to use this information...

SCCIP & UKCIP can help with guidance, training and support

Customise your Climate Information

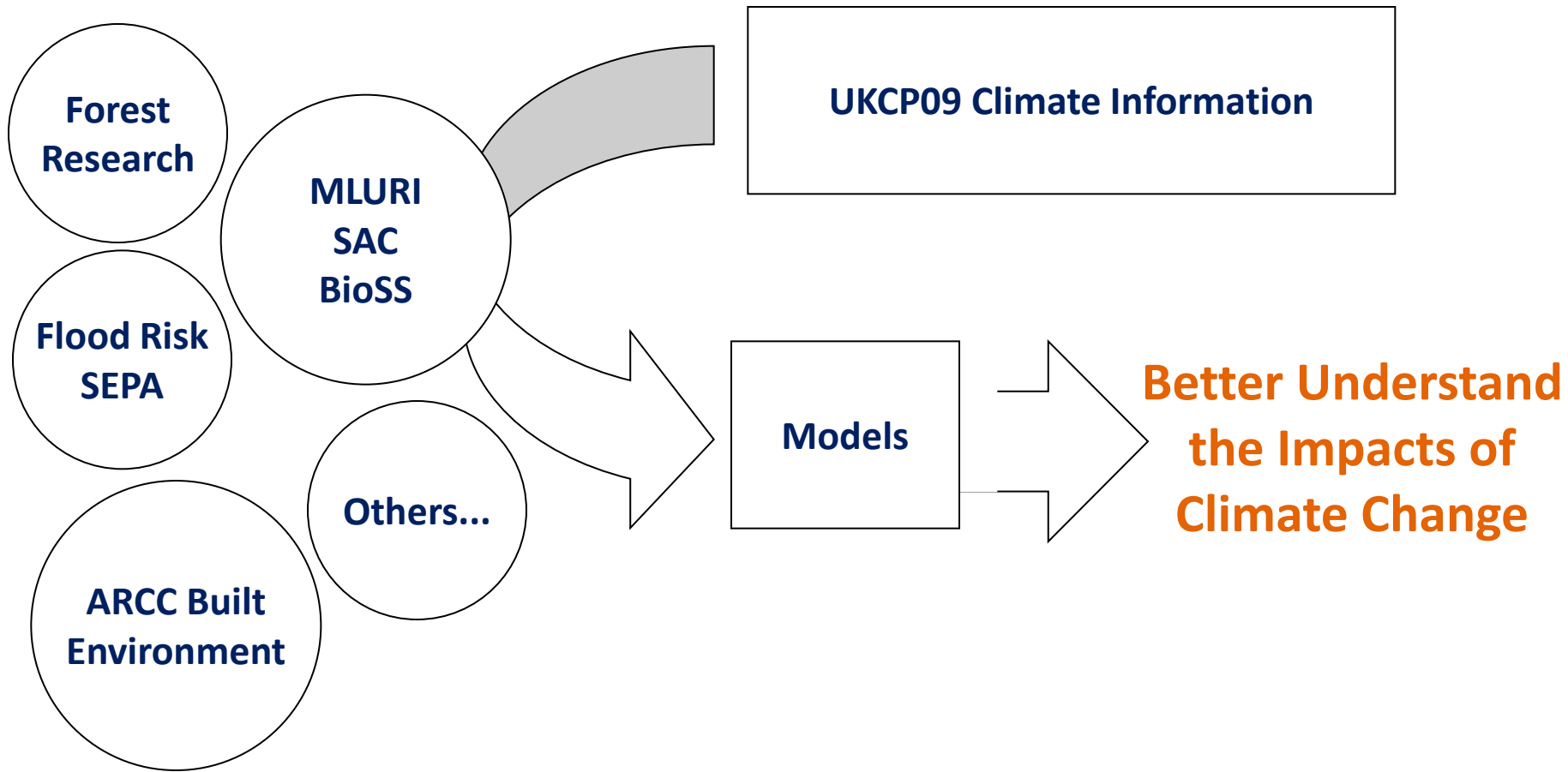


Climate Scientists have provided a comprehensive dataset of climate information...

...however, **adaptation requires understanding of impacts...**

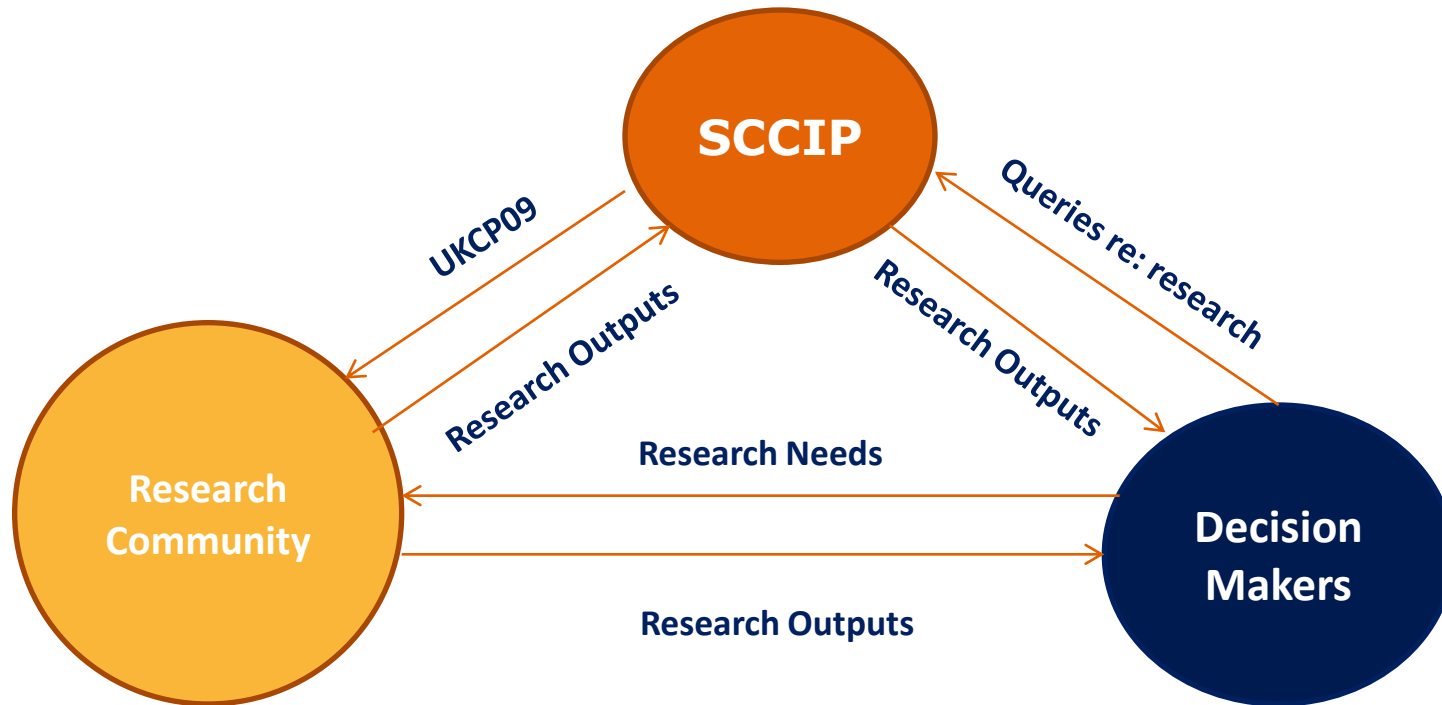
... the research and specialist community has critical role in **translating climate variables to impacts.**

So how does the wider research community engage with projections?



Continues to Grow...

Connections



What Does Adaptation Need?

- Requires well informed policy makers... UKCP09 provides the evidence base... but need to understand impacts
- Part of this is commissioning decision-relevant research... this responsibility rests in both directions – there needs to be good interaction between policy makers and researchers
- Researchers must also have opportunity to work out how to use climate information – in-depth work on specific impacts is relatively new!!
- But also a wider engagement... between scientific community / policy makers / those who will enact policy / those who will be impacted...
- This will need to occur at different scales – national / regional / local... All important - but don't forget that most adaptation action will be local...
- And it can't be done in isolation... cross-sectoral engagement and collaboration is critical... more effective and efficient adaptation... and avoids uncoordinated adaptation that may lead to adverse or unintended outcomes

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– please contact us –

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SCCIP Partnership:

