

New ÖKS scenarios Status and Outlook

Theresa Schellander-Gorgas
IWCR-Online Meeting Feb19 2026

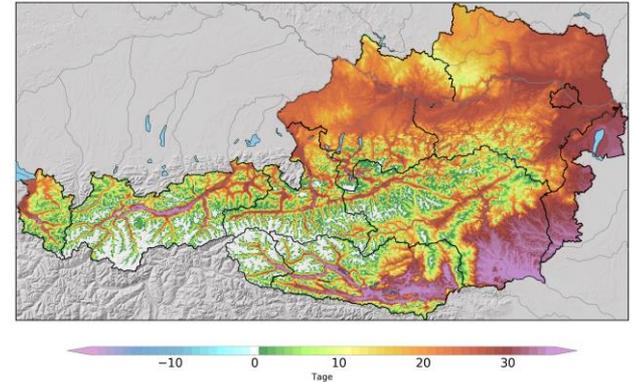
Update of Data Basis

- Based on the latest scientific findings
- For Austria/Alpine region
- Climate development until 2100
- Robust statements

Service for Users

As a basis for practical decision-making

- Needs-oriented – answers to the right questions!
- Practical – What information helps with decision-making?
- Comprehensible – Do I get the information that suits my background?
- User-friendly: Findability, visualization, download options, usable data formats, instructions, etc.



ÖKS 15: Änderung der Hitzetage 2071 – 2100 rel. zu 1991 – 2020 im RCP8.5

Klimaszenarien.AT – How?



- As a consortium of Austrian climate research and climate service institutions

GeoSphere Austria

Matthias Themessl
Theresa Schellander-Gorgas
Laura Mainetti
Sebastian Lehner



Climate Change Center Austria

Angelika Wolf
Ingeborg Schwarzl
Matthias Schwarz

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Since 2022



Austria Institute of Technology

Marianne Bügelmayer-Blaschek

University of Graz, Wegener Center

Douglas Maraun
Heimo Truhetz



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Simon Tschannett



University of Innsbruck

Mathias Rotach
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Maximilian Meindl

Klimaszenarien.AT – How?

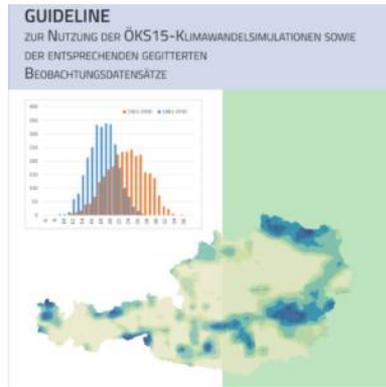
- As a consortium of Austrian climate research and climate service
- Include findings of previous milestones / products of ÖKS15



2015/2016
Data, Factsheets

Beobachtete Werte und simulierte Änderungen

Indikator	2011-2020		RNP1 (2021-2050)		RNP2 (2021-2050)	
	Werte	Änderung	Werte	Änderung	Werte	Änderung
Hitzetage (Jahresmittel)	8,3	+3,2	+3,2	+2,4	+7,2	+3,6
Vegetationsperiode (Jahresmittel)	192,3	+13,4	+38,8	+33,7	144,3	-48,0



2018
Guidelines, Maps

CLIMAMAP
Karten zur Darstellung der Auswirkung des Klimawandels für Gemeinden und Regionen Österreichs



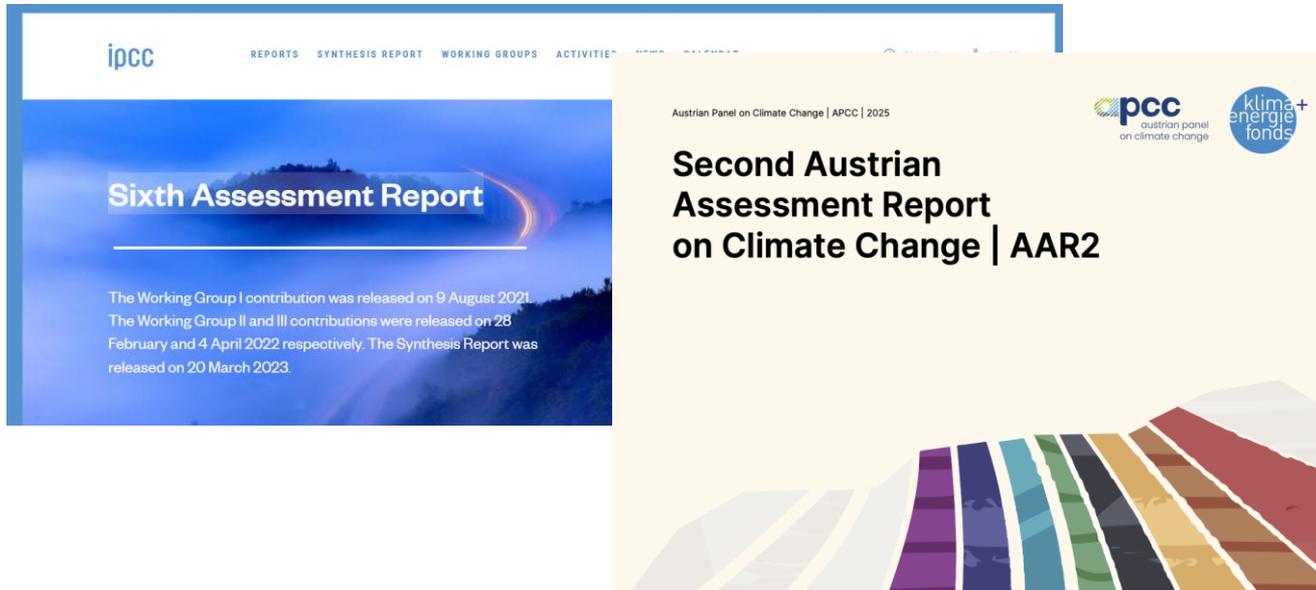
2021
Fuse-AT: Snow parameters

2024
Aggregated heat indicators incl. humidity



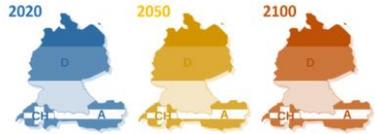
Klimaszenarien.AT – How?

- As a consortium of Austrian climate research and climate service
- Include findings of previous milestones / products of ÖKS15
- Include statements of IPCC AR6 and AAR2



Klimaszenarien.AT – How?

- As a consortium of Austrian climate research and climate service
- Include findings of previous milestones / products of ÖKS15
- Include statements of IPCC AR6 and AAR2
- In close cooperation with international institutions and services



DACH – scenarios project



(EURO-)CORDEX-Community

International Cooperations

GeoSphere Austria
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Theresa Schelländer-Gorgas
Laura Mannetti
Sebastian Letner

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CCA
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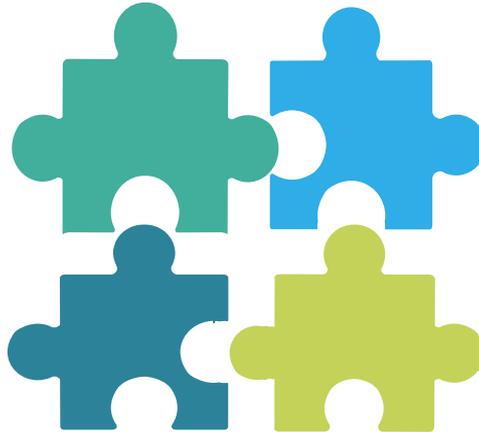
National Scenarios Network,
Climate Service related projects

Klimaszenarien.AT – Scientific Projects

Funded by the Austrian Climate Research Programme (ACRP)

HighResMountains (U. Innsbruck)

- Extreme events (Precipitation, Temperature)
- Focus on Alpine region
- Convection permitting climate



PREVAL ÖKS-NEXTGEN (U. Graz)

- Selection of climate model simulations in consideration of user requirements
- Approach designed for the regionalization of simulations (bias adjustment, downscaling) for Austria



HighResLearn (U. Vienna)

- Data recipes for high-resolution climate data
- Processing tools, accompanying documentation, examples
- Methods for extraction and analysis of actionable climate information



Use.AT (GeoSphere)

- Lessons learned from climate service providers (EU, national in Europe and Austria)
- Learn from ÖKS15 as the standard climate service product for Austria
- Role of ÖKS15 in decision-making processes and limitations



<https://klimaszenarien.at/en/projects/>

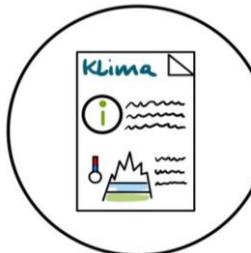
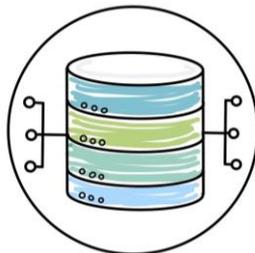
Website: www.klimaszenarien.at

- Overview, Guidance
- Factsheets + Documentation
- Links: Data Hub + ÖKS Web-Explorer
- Now: Project reports, presentations, preliminary material



Data Hub (GeoSphere Austria)

- Data download
- Raw data & derived indices
- Aggregated data



ÖKS Web-Explorer

- Interactive web platform
- Visualisation
- Maps and diagrams
- Easy access to climate information

Documents

- Main statements, Factsheets
- Basic interpretation and use cases, guidelines
- Technical description
- Scientific publications

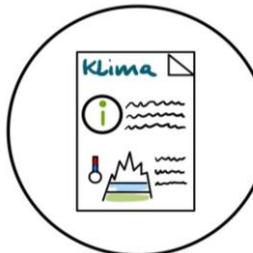
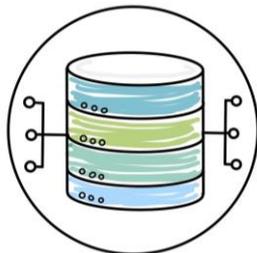
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Funding?



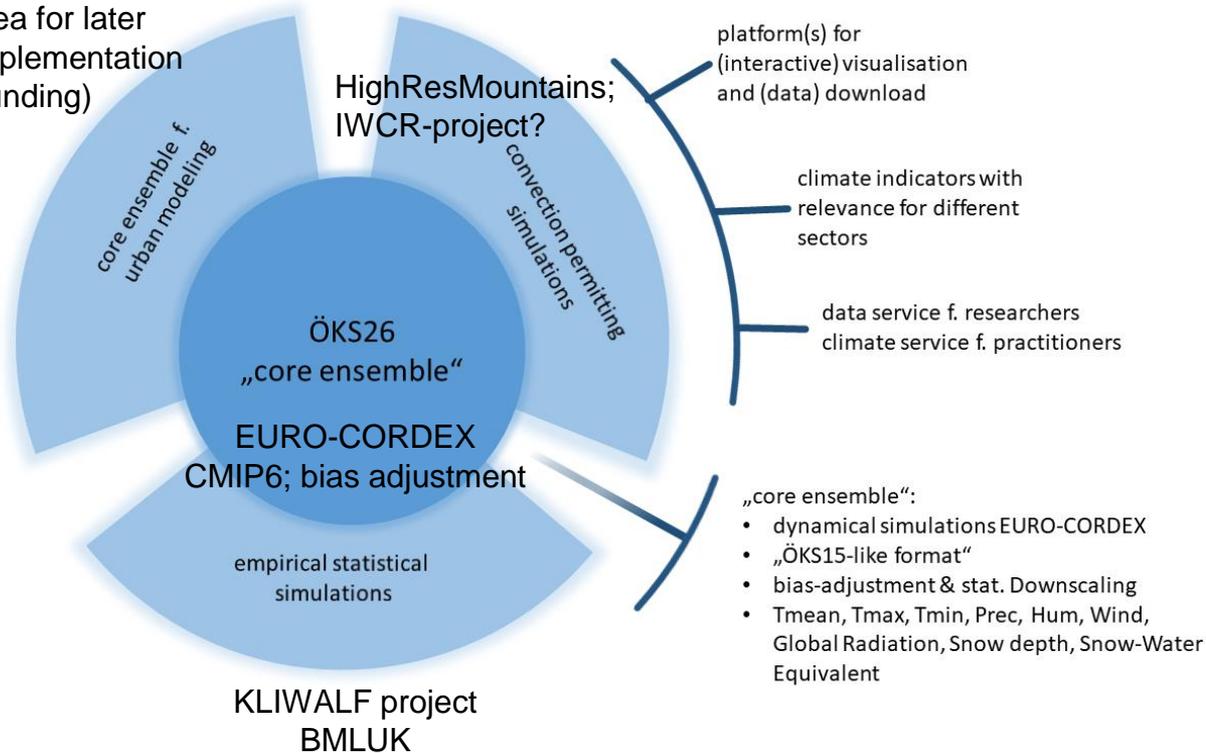
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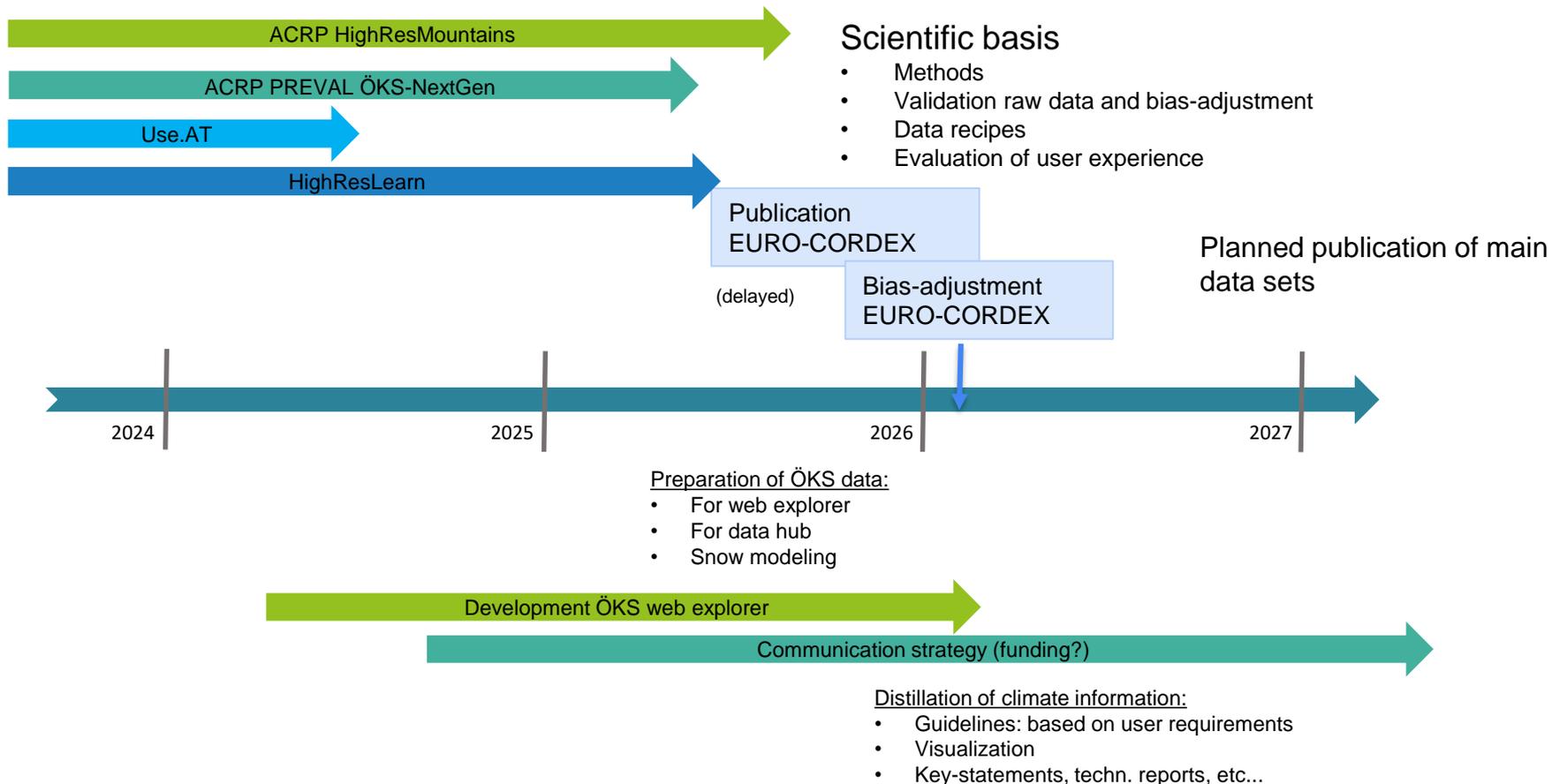
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Idea for later
implementation
(funding)



- Different data modules possible to enable services tailored to user needs - depending on prioritization
- „core ensemble“ is not yet finally defined: spatial resolution, parameters, ensemble composition – users expect an “Update of ÖKS15”

Klimaszenarien.AT – ÖKS time table



Klimaszenarien.AT – Contact

Coordination CCCA + GeoSphere Austria

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Angelika Wolf (CCCA)
Theresa Schellander-Gorgas (GSA)
Ingeborg Schwarzl (CCCA)
Laura Mainetti (GSA)

Data Hub

Matthias Schwarz
(CCCA, GSA)

ÖKS web explorer

Stefan Kienberger
(GSA)

Website: <https://klimaszenarien.at>

Klimaszenarien.AT

Die Initiative vereint die österreichische Klimaforschung, um die neue Generation der Österreichischen Klimaszenarien wissenschaftlich robust sowie praxisorientiert zu entwickeln und zielgruppengerecht zu kommunizieren.

Daten für die Forschung

Im Rahmen der Initiative Klimaszenarien.AT werden bis 2026 unter dem Dach des CCCA die neuen österreichischen Referenzklimaszenarien ÖKS15 erstellt. Erfahren Sie mehr über den Community Process, die Möglichkeiten der Einbindung und Mitgestaltung sowie die geplanten Ergebnisse und Neuerungen der ÖKS15 Datenätze. [WEITER...](#)

STARC Impact qualitative Teilbild. Quelle: STARC Impact Konsortium.

Service für die Praxis

Von Tourismus über Energie bis hin zu Nahrungssicherheit: Der Klimawandel betrifft die Wirtschaft und Gesellschaft in Österreich schon heute. Wie wird es in der Zukunft aussehen? Die neuen österreichischen Klimaszenarien liefern dazu Antworten. Welche Produkte können Sie als Anwender in erwarten? Wie können Sie sich einbringen? [WEITER...](#)

Thematische Karte von Wien. Quelle: Umweltbundesamt und ARGE Gießfeld im Auftrag der Stadt Wien.