

**REKLIM / Topics / Workpackages**

<b>Topic</b>	<b>Topic Leader</b>	<b>Workpackages</b>	<b>Involved Institutions</b>
Topic 1: Coupled Modelling of the Regional Earth System (CoMRES)	Prof. Dr. Hans von Storch (HZG) (hvonstorch@web.de) Prof. Dr. Klaus Dethloff (AWI) (Klaus.Dethloff@awi.de)	WP 1.1: Arctic components of the Earth System WP 1.2: Coupled regional atmosphere-ocean modelling for marginal seas WP 1.3: Regional land surface – atmosphere modelling WP 1.4: Regional chemistry-climate modelling WP 1.5: Recent regional climate change simulation and validation WP 1.6: Ensemble modelling of future regional climate change	AWI, KIT, HZG, UFZ
Topic 2: Sea level Change and Coastal Impacts	Prof. Dr. Peter Lemke (AWI) (peter.lemke@awi.de) Prof. Dr. Heinrich Miller (AWI) (heinrich.miller@awi.de)	WP 2.1: Ice sheet mass balance WP 2.2: Ocean response WP 2.3: An integrated Earth-System – Solid Earth Model Approach	AWI, GFZ, HZG
Topic 3: Regional climate changes in the Arctic: Forcing and long-term effects at the land-ocean interface	Prof. Dr. Rolando di Primio (GFZ) (dipri@gfz-potsdam.de) Prof. Dr. Ursula Schauer (AWI) (ursula.schauer@awi.de)	WP 3.1: Arctic shelf processes WP 3.2 Energy, water and carbon balance in permafrost landscapes WP 3.3 Coastal and subsea permafrost and gashydrates	AWI, GFZ, HZG
Topic 4: Land Surface in the Climate System	Prof. Dr. Hans Peter Schmid (KIT) (HaPe.Schmid@kit.edu) Prof. Dr. Sabine Attinger (UFZ) (sabine.atinger@ufz.de)	WP 4.1: Concerted regional long-term observation of soil-ecosystem-climate parameters and interactions (TERENO) WP 4.2: SHVA-transfer process module/model development; parameterisation; up- and downscaling strategies; module/model coupling strategies WP 4.3: Regionally differentiated climate impacts on hydrology, agriculture, forestry	KIT, FZJ, UFZ, HMGU, GFZ
Topic 5: Chemistry-Climate Interactions from Global to Regional Scales	Prof. Dr. Andreas Wahner (FZJ) (a.wahner@fz-juelich.de) Prof. Dr. Johannes Orphal (KIT) (johannes.orphal@kit.edu)	WP 5.1: Aerosol and ozone WP 5.2: Water vapour and clouds	FZJ, KIT, GFZ, AWI, DLR
Topic 6: Extreme Events-Storms, Heavy Precipitation, Floods and Droughts	Prof. Dr. Christoph Kottmeier (KIT) (christoph.kottmeier@kit.edu) Dr. Frauke Feser (HZG) (frauke.feser@hzg.de)	WP 6.1: Proxies for extreme climate event changes WP 6.2: Linking extreme climate events with hydrology WP 6.3: Validation of Regional Earth System Models in simulating the tails of wind speed, rainfall distributions and hydrological extremes WP 6.4: Statistics of extreme climate events in past decades WP 6.5: Extreme events in scenarios of future climate WP 6.6: Flood risk assessment and management	KIT, HZG, UFZ, GFZ
Topic 7: Socio- economics and management of regional climate mitigation and adaptation	Prof. Dr. Bernd Hansjürgens (UFZ) (bernd.hansjuergens@ufz.de) Prof. Dr. Hans von Storch (HZG) (hvonstorch@web.de)	WP 7.1: Risk-cost analysis of climate change WP 7.2: Linking regional and sectoral mitigation policies WP 7.3: The economics and management of adaptation WP 7.4: Perception and communication of climate risks in regional context	UFZ, HZG
Topic 8: Rapid climate change derived from proxy data	Prof. Dr. Ralf Tiedemann (AWI) (ralf.tiedemann@awi.de) Prof. Dr Achim Brauer (GFZ) (achim.brauer@gfz-postdam.de)		AWI, GFZ, HZG, Universities of Bremen, Heidelberg, Hamburg, Potsdam
Topic 9: Climate change and air quality	Prof. Dr. Johannes Orphal (KIT) (johannes.orphal@kit.edu) Prof. Dr. Andreas Wahner (FZJ) (a.wahner@fz-juelich.de)		KIT, FZJ, HMGU, DLR, University of Köln, Technische Universität München
Topic 10: Risk analysis and risk management	Prof. Dr. Reimund Schwarze (HZG/UFZ) reimund.schwarze@ufz.de Prof. Dr. Beate Ratter (HZG) (beate.ratter@hzg.de)		GFZ, HZG, KIT, UFZ, Universities of Potsdam, Hamburg, Leipzig