

Table 6.1 Roles of General Circulation Modelling groups in RT1

Group	PI	Model	Short description of model runs to be carried out	Expected completion date
<p>OCANAL1 and OCANAL2 denote model integrations to provide analyses of ocean observations used to initialise ensemble hindcasts in support of the multimodel seasonal to decadal component of (1) Version 1 of the ensemble prediction system (D1.4 and MM1.2), and (2) testing of designs for an improved prediction system (Version 2) to be specified at month 60 (MM1.3).</p> <p>HIND1 denotes seasonal to decadal hindcasts carried out to test the multimodel seasonal to decadal prediction system of D1.4. These will consist of two 6 month ensemble hindcasts per model per year, initialised from two start dates in the years 1991-2001 to be decided in consultation with partners. There will also be one 12 month ensemble hindcast per year, and two ensemble multiannual hindcasts started from dates to be decided. All ensembles will consist of 9 members started from slightly different initial conditions.</p> <p>HIND2 denotes further seasonal to decadal hindcasts (to be decided) in support of MM1.3.</p> <p>SCEN1 denotes climate change scenario simulations of 21st century climate change supporting development of a first ensemble-based methodology for centennial climate prediction, part of Version 1 of the ensemble prediction system (MM1.2).</p> <p>SCEN2 denotes further scenario simulations of 21st century climate change supporting development of an improved centennial prediction methodology, contributing to specification of Version 2 of the ensemble prediction system (MM 1.3).</p>				
CERFACS	Philippe Rogel	ARPEGE + ORCA Variational Initial Cond	OCANAL1 OCANAL2 HIND1	Month 18 Month 48 Month 18
CNRM	Michel Déqué	ARPEGE + ORCA	HIND1	Month 18
CNRM	Jean-Francois Royer	ARPEGE + ORCA + ISBA-Ags	SCEN2	Month 48
ECMWF	Tim N. Palmer	IFS + ORCA	OCANAL1 OCANAL2 Nine member ensemble hindcasts including stochastic physics, in parallel with HIND1	Month 18 Month 48 Month 18
IfM-Kiel	Mojib Latif	ECHAM5 + MPI OM	OCANAL1 OCANAL2 HIND1 HIND2	Month 18 Month 48 Month 18 Month 48
INGV	Simona Masina	ECHAM4.6 + ORCA	OCANAL1 OCANAL2	Month 18 Month 48
IPSL	Jerome Vialard	ORCA	OCANAL1 OCANAL2	Month 18 Month 48
KNMI	Gerrit Burgers	ORCA	OCANAL1 OCANAL2	Month 18 Month 48
METO-HC	James Murphy	HadCM3	9 member ensemble hindcasts with perturbed physics, in parallel with HIND1 Further perturbed physics ensembles in parallel with HIND2	Month 18 Month 48
METO-HC	Matt Huddleston	GloSea	OCANAL1 OCANAL2 HIND1 plus perturbed physics	Month 18 Month 48

			ensembles in parallel with HIND1 and METO-HC	Month 18
METO-HC	Mat Collins	HadCM3	<p>SCEN1: An ensemble of 16 simulations of 1860-2100 climate forced by historical changes in anthropogenic and natural forcings up to 1990 and an SRES scenario (to be decided) to 2100. This will be a perturbed physics ensemble sampling uncertainties in atmospheric parameters.</p> <p>SCEN2: Further perturbed physics ensemble simulations of 1860-2100 climate, sampling uncertainties in additional Earth System modules, including the physical ocean, atmospheric sulphur cycle and terrestrial carbon cycle.</p>	<p>Month 18</p> <p>Month 48</p>
UOXFDC	Myles Allen	HadCM3L HadCM3L/HadCM3	<p>SCEN1: Climate change scenarios for 1950-2050 produced by a very large perturbed physics ensemble sampling uncertainties in initial conditions, external forcing and atmospheric and land surface parameter space.</p> <p>SCEN2: Climate change scenarios for 1950-2100 produced by a large perturbed physics ensemble, also addressing uncertainty in ocean parameterisations and exploring the impact of ocean resolution.</p>	<p>Month 18</p> <p>Month 48</p>
FUB	Ulrich Cubasch	EGMAM i.e. MA-ECHAM4 + HOPE-G + MECCA	<p>SCEN1: Climate change scenarios for the 21st Century produced by a perturbed physics ensemble sampling uncertainties in initial conditions and model structure (i.e. with and without stratosphere, with and without chemistry)</p> <p>SCEN2: Further perturbed physics and chemistry (of increasing degree of complexity) ensemble simulations of 1860-2100 climate, including various estimates of natural forcings (solar, volcanic).</p>	<p>Month 18</p> <p>Month 48</p>
DMI	Eigil Kaas	ECHAM5+MPIOM ECHAM5+MPIOM DCM	<p>SCEN1</p> <p>SCEN2</p> <p>Time-slice simulation at very high resolution (T159L31) for climate change scenarios, in parallel with SCEN1</p>	<p>Month 24</p> <p>Month 48</p> <p>Month 24</p>