

# CMIP6 Model Analysis Workshop

## 25-28 March 2019, Barcelona

### PROGRAMME

#### Monday, March 25

<b>11:00-13:00</b>	<b>Registration</b>	
<b>13:00</b>	<b>Start of the meeting</b>	
<b>13:00-14:15</b>	<b>Keynote presentations</b>	
	<ul style="list-style-type: none"><li>• CMIP6 modelling status and goals the workshop</li><li>• AR6 WG1</li></ul>	V. Eyring G. Flato
<b>14:15-15:30</b>	<b>Session 1: MIP overviews, model group overviews and infrastructure</b>	
	<ul style="list-style-type: none"><li>• 2-minute presentations from poster presenters in Session 1</li></ul>	
<b>15:30-16:00</b>	<i>Coffee break</i>	
<b>16:00-17:30</b>	<b>Session 1: MIP overviews, model group overviews and infrastructure</b>	
	<ul style="list-style-type: none"><li>• Poster viewing for Session 1</li></ul>	

#### Tuesday, March 26

<b>9:00-10 :15</b>	<b>Session 2: Forcing and Feedbacks</b>	
	<ul style="list-style-type: none"><li>• 2-minute presentations from poster presenters in Session 1</li></ul>	
<b>10:15-10:45</b>	<i>Coffee break</i>	
<b>10:45-12:15</b>	<b>Session 2: Forcing and Feedbacks</b>	
	<ul style="list-style-type: none"><li>• Poster viewing for Session 2</li></ul>	
<b>12:15-13:30</b>	<i>Lunch - Lunchtime session on CMIP6 links to VIACS community</i>	
<b>13:30-14:15</b>	<b>Keynote presentations</b>	
	<ul style="list-style-type: none"><li>• CMIP6 infrastructure status</li><li>• WMO new strategy and opportunities to strengthen CMIP</li></ul>	K. Taylor P. Kabat:
<b>14:15-15:30</b>	<b>Session 3: Uncertainty, biases and constraints</b>	
	<ul style="list-style-type: none"><li>• 2-minute presentations from poster presenters in Session 3</li></ul>	
<b>15:30-16:00</b>	<i>Coffee break</i>	
<b>16:00-17:30</b>	<b>Session 3: Uncertainty, biases and constraints</b>	
	<ul style="list-style-type: none"><li>• Poster viewing for Session 3</li></ul>	
<b>19:00-21:30</b>	<b>Icebreaker</b>	
	<b>MACBA (Paça dels Angels 1, Barcelona)</b>	

## Wednesday, March 27

### Joint day with PRIMAVERA

- 9:00-10 :15**      **Session 4: High resolution**
- 2-minute presentations from poster presenters in Session 4
- 10:15-10:45**      **Coffee break**
- 10:45-12:15**      **Session 4: High resolution**
- Poster viewing for Session 4
- 12:15-13:30**      **Lunch**
- 13:30-14:15**      **Keynote presentations**
- High Resolution Modelling
- M.Roberts /  
P. L. Vidale
- 14:15-15:30**      **Session 5: Variability and extremes**
- 2-minute presentations from poster presenters in Session 5
- 15:30-16:00**      **Coffee break**
- 16:00-17:30**      **Session 5: Variability and extremes**
- Poster viewing for Session 5

## Thursday, March 28

- 9:00-10 :15**      **Session 6: Future Projections**
- 2-minute presentations from poster presenters in Session 6
- 10:15-10:45**      **Coffee break**
- 10:45-12:15**      **Session 6: Future Projections**
- Poster viewing for Session 6
- 12:15-13:30**      **Lunch**
- 13:30-13:50**      **Keynote presentation**
- Integrated Assessment Modelling and emission pathways and the connections to global Earth System models
  -
- J. Rogelj:
- 13:50-14:30**      **Session 7: Regional and Impacts**
- 2-minute presentations from poster presenters in Session 7
- 14:30-16:00**      **Session 7: Regional and Impacts**
- Poster viewing for Session 7
- 16:00-16:30**      **Coffee break**
- 16:30-17:30**      **Final discussion including emerging properties of CMIP6 ensemble and way forward toward CMIP7**



## POSTER LIST

Monday, March 25 (PM)

### Session 1: MIP overviews, model group overviews and infrastructure

<b>1-P01</b>	BAO	Qing	Tropical Precipitation Variability In the CAS FGOALS-f3-H
<b>1-P02</b>	BOCK	Lisa	CMIP6 Evaluation with the ESMValTool
<b>1-P03</b>	BOUCHER	Olivier	Analysis of the IPSL-CM6-LR ensemble of historical experiments
<b>1-P04</b>	DANABASOGLU	Gokhan	Community Earth System Model version 2 (CESM2)
<b>1-P05</b>	DOESCHER	Ralf	The physical performance and variability of first EC-Earth transient simulation ensemble under CMIP6.
<b>1-P06</b>	GOPINATHAN	Prajeesh	Indian Ocean Dipole and its linkage to South Asian Monsoon in IITM-ESM
<b>1-P07</b>	GUTOWSKI	William	WCRP CORDEX: A Diagnostic MIP for CMIP6
<b>1-P08</b>	ISHII	Masayoshi	The MRI Earth System Model ver. 2.0 (MRI-ESM2.0): Basic evaluation of the physical component
<b>1-P09</b>	JOHN	Jasmin	GFDL's contributions to CMIP6 - highlights from GFDL CM4 and ESM4
<b>1-P10</b>	JONES	Colin	The UK Earth system model contribution to CMIP6: First results
<b>1-P11</b>	JOSEPH	Renu	Overview of US Department of Energy's efforts on Model Diagnostics and Metrics for Understanding and Quantifying Model Biases
<b>1-P12</b>	JUCKES	Martin	The role of the IPCC Data Distribution Centre in supporting assessments of climate change
<b>1-P13</b>	KAGEYAMA	Masa	PMIP4-CMIP6 simulations of the Last Glacial Maximum climate: first results
<b>1-P14</b>	KIM	Youngho	Diagnosis of model bias improvement of KIOST Earth System Model
<b>1-P15</b>	KRASTING	John	Development of Process-oriented Diagnostics through NOAA's Climate Model Development Task Force
<b>1-P16</b>	LAWRENCE	David	Advancing our understanding of the impacts of historic and projected land use in the Earth System: The Land Use Model Intercomparison Project (LUMIP)
<b>1-P17</b>	LEUNG	Ruby	The Energy Exascale Earth System Model (E3SM) version 1: Evaluation and Analysis of Climate Sensitivity
<b>1-P18</b>	NOBRE	Paulo	BESM developments towards CMIP6
<b>1-P19</b>	PASCOE	Charlotte	Comparison of Earth system models through effective documentation of models and insight about the implementation of forcings
<b>1-P20</b>	GLECKLER	Peter	Gauging systematic biases across CMIP generations
<b>1-P21</b>	STOCKHAUSE	Martina	The importance of data references in CMIP6 data usage and IPCC climate assessments
<b>1-P22</b>	SUN	Minah	Diagnosing climate response and feedback in response to idealized CO2 forgin in K-ACE
<b>1-P23</b>	TAYLOR	Karl	input4MIPs: Getting CMIP forcing data in better shape
<b>1-P24</b>	TEBALDI	Claudia	An overview of the first results from ScenarioMIP experiments

<b>1-P25</b>	TEICHMANN	Claas	The Vulnerability Impacts Adaptation and Climate Services Advisory Board; Towards using CMIP6 outcome in VIACS applications
<b>1-P26</b>	TIAN	Baijun	AIRS Obs4MIPs V2 Dataset and CMIP6 Model Temperature and Humidity Biases
<b>1-P27</b>	VOLODIN	Evgeny	The nature of 60-year oscillations of the Arctic climate according to the data of the INM RAS climate model
<b>1-P28</b>	WACHSMANN	Fabian	Project compliant climate model output analysis with CDO's
<b>1-P29</b>	WATANABE	Masahiro	The Cloud Feedback Model Intercomparison Project (CFMIP): Current status for CMIP6
<b>1-P30</b>	WU	Tongwen	Main Progress of the Beijing Climate Center Climate System Model (BCC-CSM) from CMIP5 to CMIP6
<b>1-P31</b>	ZHOU	Tianjun	Overview of the Global Monsoons Model Intercomparison Project (GMMIP) for CMIP6

## Tuesday, March 26 (AM)

### Session 2: Forcing and Feedbacks

<b>2-P01</b>	ALBRIGHT	Anna Lea	Climate sensitivity and feedbacks in the IPSL-CM6 climate model
<b>2-P02</b>	CLEATOR	Sean	A new multi-variable benchmark for Last Glacial Maximum simulations
<b>2-P03</b>	COLLINS	William	Biogeochemical feedbacks in CMIP6 Earth System Models
<b>2-P04</b>	CVIJANOVIC	Ivana	Energy conserving and physically consistent method for isolating the impacts of sea-ice changes in a multi-model framework
<b>2-P05</b>	DOUVILLE	Hervž	Assessing the linearity and additivity of water cycle changes simulated by CNRM-CM6-1
<b>2-P06</b>	GASTINEAU	Guillaume	North Atlantic response to external forcing and role of the anthropogenic-aerosols
<b>2-P07</b>	GIER	Bettina	Changes in Growth Rate and Seasonal Cycle Amplitude of Column CO2 in CMIP5 models and Satellite Data
<b>2-P08</b>	GINOUX	Paul	Improving dust forcing in GFDL ESM4 by coupling dust emission from the dynamic land model (LM4.1) and deposition to the ocean biogeochemistry model (COBALT).
<b>2-P09</b>	HARDIMAN	Steven	The impact of fixed ozone in 4xCO2 simulations
<b>2-P10</b>	HUANG	Xin	Global monsoon changes in CMIP6 GMMIP pacemaker experiments
<b>2-P11</b>	JI	Duoying	Response of permafrost under different solar geoengineering methods
<b>2-P12</b>	KNUTTI	Reto	Projection uncertainties in the next generation of climate models and ensembles
<b>2-P13</b>	KOSHIRO	Tsuyoshi	CMIP5 subtropical marine low cloud feedback interpreted through a unified predictive index
<b>2-P14</b>	KRAMER	Ryan	Inter-model spread in instantaneous radiative forcing across multiple climate drivers



<b>2-P15</b>	LAUER	Axel	Consistency and robustness of emergent constraints for equilibrium climate sensitivity
<b>2-P16</b>	LI	Juilin	Comparisons of Simulated Cloud-Radiation-Circulation-Precipitation Coupling over Tropical Pacific Oceans in Global Climate Models between CMIP5 and CMIP6: Preliminary Results
<b>2-P17</b>	MEDEIROS	Brian	Climate sensitivity and cloud feedbacks in CESM2 and E3SM
<b>2-P18</b>	O'CONNOR	Fiona	UKESM1: A first assessment of the pre-industrial to present-day anthropogenic forcing and its attribution to different forcing agents
<b>2-P19</b>	OTTO-BLIESNER	Bette	Using simple indices of global climate change: the PMIP4 and CMIP6 simulations and paleoclimate data to evaluate how the Earth system responds to strong forcings
<b>2-P20</b>	POHLMANN	Holger	Influence of CMIP6 Forcing on Historical and Decadal Hindcast Simulations with MPI-ESM
<b>2-P21</b>	SANDERSON	Benjamin	Deriving Earth System Feedbacks on multiple timescales
<b>2-P22</b>	SCHULZ	Michael	Historical aerosol forcing diagnosis in CMIP6, AerChemMIP and AeroCom models
<b>2-P23</b>	SEMMLER	Tido	Polar amplification and atmospheric meridional energy transport in CMIP6 DECK simulations
<b>2-P24</b>	SENEVIRATNE	Sonia	Global soil moisture-carbon feedbacks: Planned joint analyses from LS3MIP and C4MIP
<b>2-P25</b>	SODEN	Brian	Tools for computing radiative forcing and radiative feedbacks from CMIP6 output
<b>2-P26</b>	TILMES	Simone	Representation and trends of Organic Aerosols in CMIP6 AerChemMIP Simulations using the Whole Atmosphere Community Climate Model (WACCM6)
<b>2-P27</b>	TURNOCK	Steven	Historical and Future Changes in Tropospheric Ozone using a parameterised Approach with the CMIP6 emissions dataset
<b>2-P28</b>	WATTERSON	Ian	Analysis of CMIP6 atmospheric moisture fluxes and the implications for projections of future change in regional rainfall
<b>2-P29</b>	ZHANG	Lixia	Aerosol forcing of extreme summer drought over North China

## Tuesday, March 26 (PM)

### Session 3: Uncertainty, biases and constraints

<b>3-P01</b>	ACOSTA NAVARRO	Juan Camilo	Consistent boreal winter forecast skill in current (non-CMIP6) climate prediction systems on seasonal scales
<b>3-P02</b>	BEADLING	Rebecca	A framework for understanding the quality of Southern Ocean circulation in coupled climate and Earth System Model simulations.
<b>3-P03</b>	BHOMIA	Swati	Evaluation of CMIP6 climate models in predicting monsoon rainfall based on bias corrected clustering approach
<b>3-P04</b>	BRUNNER	Lukas	Reducing uncertainty in near-term European climate projections using a model weighting approach
<b>3-P05</b>	CRUZ-GARCIA	Ruben	An anatomy of the forecast errors in the seasonal prediction system with EC-Earth



<b>3-P06</b>	DONAT	Markus	A framework to determine the limits of achievable skill for interannual to decadal climate predictions
<b>3-P07</b>	FASULLO	John	Understanding CMIP Simulation Biases with NCAR's Climate Model Assessment Tool
<b>3-P08</b>	GORIS	Nadine	Application of a Big Data approach to constrain projection-based estimates of the future North Atlantic Carbon Uptake
<b>3-P09</b>	HOFFMAN	Forrest	Benchmarking CMIP Terrestrial Carbon Cycle and Biogeochemistry Models with the ILAMB Package
<b>3-P10</b>	KAWAMIY	Michio	An emergent constraint on ocean acidification in the subsurface layers based on multi-model analysis
<b>3-P11</b>	KIM	Hyungjun	Long-term Balances and Variabilities of Surface Energy and Water Cycles: Preliminary Results from LS3MIP and GSWP3
<b>3-P12</b>	LEMBO	Valerio	A new diagnostic tool for the energy budgets and transports in climate models
<b>3-P13</b>	LORENZ	Ruth	Can we beat climate model democracy in multi-model ensemble projections?
<b>3-P14</b>	LOUKOS	Harilaos	Bias patterns of 6 daily land surface variables in CMIP5 models and consequences of bias adjustment in terms of changes and associated uncertainty at the end of the century under RCP 8.5
<b>3-P15</b>	MAO	Jiafu	Simulations and evaluations of the version 1.0 of the E3SM Land Model (ELM) for the LS3MIP
<b>3-P16</b>	MARTIN	Eneko	Climate response to the Pinatubo and Tambora eruptions in EC-Earth3.2
<b>3-P17</b>	MILINSKI	Sebastian	Estimating the Uncertainty in Climate Projections
<b>3-P18</b>	NEWMAN	Matthew	CMIP5/CMIP6 model-analog seasonal forecast skill: a metric for model evaluation of ENSO dynamics
<b>3-P19</b>	OGUNRO	Oluwaseun	Uncertainty in Earth System Models: Benchmarks for Ocean Model Performance and Validation
<b>3-P20</b>	SOBOLOWSKI	Stefan	Investigating drivers of midlatitude circulation biases in climate hindcast ensembles
<b>3-P21</b>	SPRING	Aaron	Potential Predictability Horizon of atmospheric CO <sub>2</sub> concentrations in CMIP6 simulations
<b>3-P22</b>	TSUTSUI	Junichi	Development of a new climate model emulator based on CMIP6 multi-model ensemble
<b>3-P23</b>	RICAUD	Philippe	Benchmarking the simulated global carbon cycle of CMIP6 ESMs using atmospheric CO <sub>2</sub> flask measurements

## Wednesday, March 27 (AM)

### Session 4: High resolution

<b>4-P01</b>	AN	Bo	Mesoscale air-sea interactions in Kuroshio Extension region during winter season simulated by a High-resolution Coupled GCM
<b>4-P02</b>	ARSOUZE	Thomas	Running the EC-Earth model at ultra-high resolution: challenges and benefits
<b>4-P03</b>	BAKER	Alexander	North Atlantic post-tropical cyclones in reanalysis datasets



<b>4-P04</b>	BELLUCCI	Alessio	Air-Sea interactions over the Gulf Stream in an ensemble of HighResMIP present climate simulations
<b>4-P05</b>	BRAYSHAW	David	Influence of changes in large-scale circulation on surface wind projections for wind power over Europe
<b>4-P06</b>	DOCQUIER	David	Impact of model resolution on Arctic sea ice and North Atlantic Ocean heat transport
<b>4-P07</b>	FABIANO	Federico	Impact of stochastic physics on climate simulations with EC-Earth: looking at the atmosphere
<b>4-P08</b>	FIELD	Paul	Aerosol midlatitude cyclone indirect effects in observations and high-resolution simulations
<b>4-P09</b>	FUENTES	Franco Ramon	Impact of changes in atmospheric and ocean model resolution on modes of variability in historical coupled model simulations
<b>4-P10</b>	GUTJAHR	Oliver	Towards an energetically consistent vertical ocean mixing scheme in MPI-ESM
<b>4-P11</b>	HAARSMA	Rein	Extra-tropical transition of Atlantic hurricanes in PRIMAVERA HighResMIP Tier 1 simulations
<b>4-P12</b>	HEWITT	Helene	Critical Southern Ocean climate model biases traced to atmospheric model cloud errors
<b>4-P14</b>	KOENIGK	Torben	Deep water formation in the North Atlantic Ocean in high resolution global coupled climate models
<b>4-P15</b>	LEUNG	Ruby	Analysis of Mesoscale Convective Systems in MPAS-CAM5 High Resolution and Convection Permitting Simulations
<b>4-P16</b>	MAURER	Vera	Climate modeling with a multi-grid approach
<b>4-P17</b>	MCCOY	Daniel	Cloud feedbacks in extratropical cyclones and anti-cyclones: insight from long-term satellite data and high-resolution global simulations
<b>4-P18</b>	MECCIA	Virna	Impact of stochastic physics on climate simulations with EC-Earth: looking at the ocean.
<b>4-P19</b>	MINOBE	Shoshiro	Bomb Cyclones in PRIMAVERA Simulations
<b>4-P20</b>	MOISE	Aurel	Temporal and spatial intermittency of sub-daily precipitation in Australian monsoon and maritime continent linked to GCM precipitation biases
<b>4-P21</b>	PEANO	Daniele	Moisture transport associated to Tropical Cyclones.
<b>4-P22</b>	REED	Kevin	Quantifying tropical cyclone rainfall and size in high resolution climate simulations
<b>4-P23</b>	ROBERTS	Malcolm	Coordinated Global High Resolution Climate Modelling ? PRIMAVERA and CMIP6 HighResMIP
<b>4-P24</b>	SEIN	Dmitry	Sensitivity of Atlantic Ocean biases to horizontal resolution in prototype CMIP6 simulations with AWI-CM
<b>4-P25</b>	TERRAY	Laurent	Attribution of recent changes in extreme weather over Europe
<b>4-P26</b>	TU	Chiaying	Projection of Tropical Cyclone Activity in the Western North Pacific Using a Single Column Ocean Coupled Model
<b>4-P27</b>	VIDALE	Pier Luigi	The role of Stochastic Physics and model resolution for the simulation of Tropical Cyclones in AGCMs
<b>4-P28</b>	VON STORCH	Jin-Song	Role of ocean mesoscale eddies for the response of climate system to strong greenhouse gas forcing

<b>4-P29</b>	WEHNER	Michael	Evaluation of extreme precipitation and temperatures as simulated by the available CMIP6 HighResMIP models
<b>4-P30</b>	WYSER	Klaus	Improved meltponds in climate models
<b>4-P31</b>	ZIMMERMANN	Klaus	Using ESMValTool to Assess the Impact of Resolution and Forcings on Ocean and Sea Ice Properties in the Southern Ocean

## Wednesday, March 27 (PM)

### Session 5: Variability and extremes

<b>5-P01</b>	BEFORT	Daniel	Combing decadal predictions and near-term projections to obtain reliable information for the upcoming 30-40 years
<b>5-P02</b>	BORCHERT	Leonard	Extreme Summer Temperatures in the Northern Hemisphere and their Link to the Atlantic Multidecadal Variability in Decadal Hindcasts
<b>5-P03</b>	CADULE	Patricia	Disentangling the CO2 seasonal cycle from its terrestrial, oceanic and anthropogenic sources.
<b>5-P04</b>	CALVO	Natalia	The Brewer-Dobson circulation in CMIP6 models
<b>5-P05</b>	CASSOU	Christophe	Processes linking the intensity of the Atlantic Multidecadal Variability to the climate impacts over Europe as assessed from CMIP6/DCPP-C pacemaker experiments
<b>5-P06</b>	CHEN	Cheng-Ta	Top Precipitation Extremes from Event Perspectives: Observation, Simulation, and Attribution
<b>5-P07</b>	CORTI	Susanna	Decadal variability in weather regimes and teleconnections in reanalysis datasets and climate simulations.
<b>5-P08</b>	FISCHER	Erich	Forced response, warming pauses and surge events in temperature and heavy precipitation extremes
<b>5-P09</b>	GANGADHARAN	Nidheesh	Natural decadal sea-level variability in the Indian Ocean: Lessons from CMIP models
<b>5-P10</b>	JACKSON	Laura	AMOC hysteresis in a pre-CMIP6 GCM and a proposal for comparing AMOC feedbacks.
<b>5-P11</b>	JIANG	Jie	Global monsoon response to sea surface temperature during the 20th century: Evidences from AGCM simulations
<b>5-P12</b>	JORDA	Gabriel	Sea level variability in marginal seas from CMIP simulations. Strengths, weaknesses and ways to solve them.
<b>5-P13</b>	LEE	Jiwoo	Quantifying the Agreement Between Observed and Simulated Extratropical Modes of Interannual Variability
<b>5-P14</b>	LI	Camille	Investigating the ENSO teleconnection response to global warming using a multi-model large-ensemble experiment
<b>5-P15</b>	LI	Hongmei	Towards predicting the variable ocean carbon sink
<b>5-P17</b>	MORENO-CHAMARRO	Eduardo	Variability in the northern North Atlantic and Arctic oceans in the past millennium: A review of CMIP5/PMIP3 efforts
<b>5-P18</b>	ORTEGA	Pablo	A multi-model comparison of the ocean contributions to multidecadal variability in the North Atlantic
<b>5-P19</b>	PALMEIRO	Froila	ENSO and PDO modulation of sudden stratospheric warmings: a multi-model study

<b>5-P20</b>	PLANTON	Yann	ENSO evaluation in CMIP models
<b>5-P21</b>	RUGGIERI	Paolo	Atlantic Multidecadal Variability and North Atlantic Storm Track
<b>5-P22</b>	SPERBER	Kenneth	A Monte Carlo Assessment of Changes in Summertime Precipitation Characteristics Under RCP8.5-Sensitivity to Annual Cycle Fidelity, Overconfidence, and Gaussianity
<b>5-P23</b>	SUTTON	Rowan	Atlantic Multidecadal Variability in CMIP6 Historical Simulations
<b>5-P24</b>	TATEBE	Hiroaki	Tropical air-sea CO2 flux variations in two ESMs with an ocean data assimilation system
<b>5-P25</b>	TENG	Haiyan	Decadal predictability in the CMIP6 models
<b>5-P26</b>	TIANBAO	Zhao	Simulation of historical and projected climate change in arid and semiarid areas by CMIP5 models
<b>5-P27</b>	TORETI	Andrea	Evaluating climate model simulated extremes
<b>5-P28</b>	VERFAILLIE	Deborah	Impact of initialisation on the reliability of decadal predictions
<b>5-P29</b>	WILD	Simon	Decadal Climate Prediction with EC-Earth
<b>P5-30</b>	YANG	Shuting	The recent abrupt cooling over North Atlantic: A forced signal or natural variability?

## Thursday, March 28 (AM)

### Session 6: Future Projections

<b>6-P01</b>	ACHUTARAO	Krishna	On the Causes of Poleward Shift of the Indian Summer Monsoon Low Level Jetstream
<b>6-P02</b>	ARBLASTER	Julie	Contrasting methods of detecting and attributing the impact of external forcings
<b>6-P03</b>	BILBAO	Roberto	Attribution of Ocean Temperature Change to Anthropogenic and Natural Forcings using the Temporal, Vertical and Geographical Structure
<b>6-P04</b>	BRACONNOT	Pascale	Implication of Mid Holocene and Last Interglacial changes in insolation seasonality on high and mid latitude climate
<b>6-P05</b>	BRIERLEY	Chris	The response of climate variability in PMIP4/CMIP6
<b>6-P06</b>	CAI	Wenju	Increased variability of Eastern Pacific El Niño surface temperature under greenhouse warming
<b>6-P07</b>	EASTERLING	David	Climate Scenarios for the Fifth United States National Climate Assessment
<b>6-P08</b>	FRIEDLINGSTEIN	Pierre	Transient Climate Response to Cumulative Emissions in CMIP6 models. Preliminary results from the C4MIP experiments
<b>6-P09</b>	FROELICHER	Thomas	Assessing the robustness of marine heatwave projections
<b>6-P10</b>	FU	Qiang	Responses of terrestrial aridity to climate change and global dry land expansions
<b>6-P11</b>	HARRISON	Sandy	Evaluation of the PMIP4/CMIP6 palaeosimulations
<b>6-P12</b>	HIROKAZU	Endo	Monsoon precipitation responses to global warming and their regional differences simulated by CMIP models

<b>6-P13</b>	ILYINA	Tatiana	How far is the carbon sink predictable in a multi-model framework?
<b>6-P14</b>	ITO	Gen	The Global Carbon Cycle emissions driven simulations in the NASA-GISS climate model
<b>6-P15</b>	JUNGCLAUS	Johann	Transient simulations over the Common Era using comprehensive Earth System Models: The PMIP4/CMIP6 past2k experiment
<b>6-P16</b>	KUHLBRODT	Till	Regional and vertical structure of ocean heat uptake in the UKESM1 CMIP6 simulations of the historical climate
<b>6-P17</b>	LIDDICOAT	Spencer	A multi-model analysis of the historical carbon fluxes and compatible fossil fuel emissions in CMIP6 Models
<b>6-P18</b>	MANZINI	Elisa	Stratosphere-Troposphere Circulation Changes
<b>6-P19</b>	MENEGOZ	Martin	Present and future seasonal land snow cover simulated by CMIP coupled climate models
<b>6-P20</b>	PAIK	Seungmok	Attribution of the observed intensification of extreme precipitation over dry and wet regions
<b>6-P21</b>	MUNTJEWERF	Laura	Future evolution of the Greenland ice sheet in a coupled climate and ice sheet model (CESM-CISM)
<b>6-P22</b>	ORR	James	Seasonal amplification, phase shift, and uncertainties for ocean acidity during the 21st century
<b>6-P23</b>	PALMIERI	Julien	Regional analysis of present and future marine productivity
<b>6-P24</b>	PARK	In-Hong	Attributing the Indo-Pacific warm pool expansion: seasonal changes and its impacts on precipitation
<b>6-P25</b>	PUTRASAHAN	Dian	Detecting changes in North Atlantic variability under global warming
<b>6-P26</b>	QUAGRAINE	Kwesi	Assessing co-behaviour of climate processes over southern Africa using CMIP5 Models
<b>6-P27</b>	REN	Liwen	Detection and attribution of anthropogenic dynamical and thermodynamical contributions in extreme events over East Asia based on CMIP6 DAMIP
<b>6-P28</b>	SEFERIAN	Roland	Tracking the impact of climate model complexity in future climate projections
<b>6-P29</b>	SIERRA	Carlos	The lifetime of fossil-fuel derived carbon
<b>6-P30</b>	STACKE	Tobias	Multi-model analysis of the climatic effects of idealized global deforestation experiments
<b>6-P31</b>	YOOL	Andrew	What's up with what's going down? Trends in primary and export production

**Thursday, March 28 (PM)**

### Session 7: Regional and Impacts

<b>7-P01</b>	AKANDE	Samuel	Multi-Model Climate Vulnerability, Impacts And Adaptation Assessments Of Extreme Ocean Events In Gulf-Of-Guinea Coasts
<b>7-P02</b>	BLOCKLEY	Ed	Inter-comparison of the mass budget of Arctic sea ice and snow in CMIP6 models
<b>7-P03</b>	CABRE	Maria Fernanda	Impacts of Climate Change on Agricultural Systems



<b>7-P04</b>	DIAZ	Leandro	Prediction skill assessment of large-scale variability influence in summer southeastern South America rainfall in multi-model CMIP decadal predictions
<b>7-P05</b>	FOTSO NGUEMO	Thierry Christian	Projected trends of heavy rainfall events from CMIP5 models over Central Africa
<b>7-P07</b>	LI	Jianxio	Fidelity of the CAS FGOALS-f3 in representation of summer rainfall climatology and extreme precipitation over Tibetan Plateau
<b>7-P08</b>	MALYSHEV	Sergey	Contribution of land use and land cover alterations to changes in regional surface energy balance in CMIP6 Earth System models.
<b>7-P09</b>	MBAYE	Mamadou Lamine	Evaluation of the CNRM-CM6 Global Climate Model simulation over West Africa within CMIP6
<b>7-P10</b>	NDETATSIN TAGUELA	Thierry	Rainfall in MetUM over Central Africa: Process-Based Evaluation
<b>7-P11</b>	NIKULIN	Grigory	How dynamical downscaling can advance our understanding of large- and local-scale drivers of regional climate change
<b>7-P12</b>	PEREIRA	Bruno	Challenges for Brazilian Earth System Model (BESM)
<b>7-P13</b>	PINTO	Izidine	Process-based model evaluation and projections over southern Africa from regional and global climate models
<b>7-P14</b>	PUTRA I DEWA	Gede Arya	Analysis of future changes in extreme climate indices in Indonesia region using AIMS
<b>7-P15</b>	RANA	Arun	Intercomparison of Sea-Ice Observational and CMIP6 multi-model datasets
<b>7-P17</b>	WANG	Muyin	How different Arctic do we see from CMIP6 models?
<b>7-P18</b>	XU	Yangyang	Substantial increase in the joint occurrence and human exposure of heat and haze hazards over South Asia in the mid-21st century
<b>7-P19</b>	YANG	Jing	Fidelity of the Observational/Reanalysis Datasets and Global Climate Models in Representation of Extreme Precipitation in East China
<b>7-P20</b>	ZHAO	Siyao	Are Climate models reliable in projecting the impacts of half-degree warming increment on heat extremes over China?
<b>7-P21</b>	ZHAO	Yin	Evaluation of CMIP6 models in the context of Precipitation over the Tibetan Plateau