

„Atmospheric excitation of the annual wobble over the 21<sup>st</sup>-century from CMIP6 predictions under different scenarios“

Sigrid Böhm, Anne Strümpf, and David Salstein

---

## References for CMIP6 model output used in the study:

### **CAMS-CSM1-0:**

Rong, Xinyao (2019). CAMS CAMS-CSM1.0 model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20190708. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.11045>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.11046>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.11047>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.11048>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.11052>

### **CNRM-ESM2-1:**

Voltaire, Aurere (2019). CNRM-CERFACS CNRM-ESM2-1 model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20190328. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.4182>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.4186>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.4191>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.4199>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.4226>

### **CanESM5-1:**

Swart, Neil Cameron; Cole, Jason N.S.; Kharin, Viatcheslav V.; Lazare, Mike; Scinocca, John F.; Gillett, Nathan P.; Anstey, James; Arora, Vivek; Christian, James R.; Jiao, Yanjun; Lee, Warren G.; Majaess, Fouad; Saenko, Oleg A.; Seiler, Christian; Seinen, Clint; Shao, Andrew; Solheim, Larry; von Salzen, Knut; Yang, Duo; Winter, Barbara; Sigmond, Michael (2019). CCCma CanESM5 model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20190429. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.3682>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.3683>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.3685>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.3690>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.3696>

### **EC-Earth3-Veg:**

EC-Earth Consortium (EC-Earth) (2020). EC-Earth-Consortium EC-Earth3-Veg-LR model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20201201. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.4873>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.4877>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.4883>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.4887>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.4915>

**FGOALS-g3:**

Li, Lijuan (2019). CAS FGOALS-g3 model output prepared for CMIP6 CMIP historical, ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20191029. Earth System Grid Federation.

<https://doi.org/10.22033/ESGF/CMIP6.3356>

<https://doi.org/10.22033/ESGF/CMIP6.3462>

<https://doi.org/10.22033/ESGF/CMIP6.3465>

<https://doi.org/10.22033/ESGF/CMIP6.3469>

<https://doi.org/10.22033/ESGF/CMIP6.3480>

<https://doi.org/10.22033/ESGF/CMIP6.3503>

**GISS-E2-1-H:**

NASA Goddard Institute for Space Studies (NASA/GISS) (2020). NASA-GISS GISSE2.1G model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20200115. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.7407>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.7410>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.7415>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.7426>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.7460>

**IPSL-CM6A-LR:**

Boucher, Olivier; Denvil, Sébastien; Levavasseur, Guillaume; Cozic, Anne; Caubel, Arnaud; Foujols, Marie-Alice; Meurdesoif, Yann; Cadule, Patricia; Devilliers, Marion; Dupont, Elliott; Lurton, Thibaut (2019). IPSL IPSL-CM6A-LR model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20190410. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.5261>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.5262>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.5264>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.5265>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.5271>

**MIROC-ES2L:**

Tachiiri, Kaoru; Abe, Manabu; Hajima, Tomohiro; Arakawa, Osamu; Suzuki, Tatsuo; Komuro, Yoshiki; Ogochi, Koji; Watanabe, Michio; Yamamoto, Akitomo; Tatebe, Hiroaki; Noguchi, Maki A.; Ohgaito, Rumi; Ito, Akinori; Yamazaki, Dai; Ito, Akihiko; Takata, Kumiko; Watanabe, Shingo; Kawamiya, Michio (2019). MIROC MIROC-ES2L model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20201222. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.5740>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.5742>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.5745>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.5751>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.5770>

**MPI-ESM1-2-LR:**

Milinski, Sebastian; Li, Hongmei; Brune, Sebastian; Wachsmann, Fabian; Wieners, Karl-Hermann; Giorgetta, Marco; Jungclaus, Johann; Reick, Christian; Esch, Monika; Gayler, Veronika; Haak, Helmuth; de Vrese, Philipp; Raddatz, Thomas; Mauritsen, Thorsten; von Storch, Jin-Song; Behrens, Jörg; Brovkin, Victor; Claussen,

Martin; Crueger, Traute; Fast, Irina; Fiedler, Stephanie; Hagemann, Stefan; Hohenegger, Cathy; Jahns, Thomas; Kloster, Silvia; Kinne, Stefan; Lasslop, Gitta; Kornblueh, Luis; Marotzke, Jochem; Matei, Daniela; Meraner, Katharina; Mikolajewicz, Uwe; Modali, Kameswarrao; Müller, Wolfgang; Nabel, Julia; Notz, Dirk; Peters-von Gehlen, Karsten; Pincus, Robert; Pohlmann, Holger; Pongratz, Julia; Rast, Sebastian; Schmidt, Hauke; Schnur, Reiner; Schulzweida, Uwe; Six, Katharina; Stevens, Bjorn; Voigt, Aiko; Roeckner, Erich (2019). MPI-M MPI-ESM1.2-LR model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20190815. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.6688>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.6690>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.6693>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.6695>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.6705>

#### **MRI-ESM2-0:**

Yukimoto, Seiji; Koshiro, Tsuyoshi; Kawai, Hideaki; Oshima, Naga; Yoshida, Kohei; Urakawa, Shogo; Tsujino, Hiroyuki; Deushi, Makoto; Tanaka, Taichu; Hosaka, Masahiro; Yoshimura, Hiromasa; Shindo, Eiki; Mizuta, Ryo; Ishii, Masayoshi; Obata, Atsushi; Adachi, Yukimasa (2019). MRI MRI-ESM2.0 model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20190603. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.6908>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.6909>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.6910>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.6915>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.6929>

#### **UKESM1-0-LL:**

Good, Peter; Sellar, Alistair; Tang, Yongming; Rumbold, Steve; Ellis, Rich; Kelley, Douglas; Kuhlbrodt, Till (2019). MOHC UKESM1.0-LL model output prepared for CMIP6 ScenarioMIP ssp119, ssp126, ssp245, ssp370, ssp585. Version 20190830. Earth System Grid Federation.

SSP1-1.9: <https://doi.org/10.22033/ESGF/CMIP6.6329>

SSP1-2.6: <https://doi.org/10.22033/ESGF/CMIP6.6333>

SSP2-4.5: <https://doi.org/10.22033/ESGF/CMIP6.6339>

SSP3-7.0: <https://doi.org/10.22033/ESGF/CMIP6.6347>

SSP5-8.5: <https://doi.org/10.22033/ESGF/CMIP6.6405>