





	1: ACCESS1-0
·	2: BNU-ESM
	3: CMCC-CESM
	4: CMCC-CM
1	5: CMCC-CMS
	6: CNRM-CM5
	7: CanESM2
-	8: FGOALS-s2
	9: GFDL-CM3
32	10: GFDL-ESM2G
_	11: GFDL-ESM2M
	12: GISS-E2-H
12	13: GISS-E2-H-CC
e ro	14: GISS-E2-R
2 1	15: GISS-E2-R-CC
	16: HadGEM2-CC
	17: HadGEM2-ES
J 2 -	18: IPSL-CM5A-LR
	19: IPSL-CM5A-MR
	20: IPSL-CM5B-LR
	21: MIROC-ESM
	22: MIROC-ESM-CHEM
	23: MIROC5
	24: MPI-ESM-LR
1	25: MPI-ESM-MR
	26: MPI-ESM-P
	27: MRI-CGCM3
	28: NorESM1-M
0.7 0.8	29: NorESM1-ME
deviation	30: bcc-csm1-1
anomaly	31: inmcm4
anomary	32: MERRA





Although the precipitation anomalies due to meridional redistributions contribute significantly to the total precipitation anomaly, it is the anomalies due to zonal redistributions that are responsible for the nonlinear zonal wind response.

Take-home points

- Niña.
- Most CMIP5 models agree with the observations that La Niña tends to last longer and El Niño is more readily followed by La Niña. A conceptual ENSO model with a stronger air-sea coupling efficiency during El Niño reproduces this
- The CMIP5 models exhibit a wide range of amplitude asymmetries, with most underestimating the observed positive asymmetry.
- The conceptual model suggests that the sign of the amplitude asymmetry depends on the relative strengths of the positive and negative feedback.
- anomaly in the models.

References

Choi, Kit-Yan, Gabriel A. Vecchi, Andrew T. Wittenberg (2013): ENSO transition, duration and amplitude asymmetries: Role of the nonlinear wind stress coupling in a conceptual model. J. Clim., 26, 9462-9476. doi: 10.1175/JCLI-D-13-00045.1

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Equatorial zonal wind anomaly is stronger during El Niño than during La

The different zonal wind response to ENSO across CMIP5 models is highly correlated with the different zonal structure of the precipitation