

## ***Interactive comment on “Evaluation of seasonal climates of the Mediterranean and northern Africa in the CMIP5 simulations” by A. Perez-Sanz et al.***

**A. Perez-Sanz et al.**

anpsanz@gmail.com

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Referee Comment (RC) 1. Title. “r” is missing in the word “northern”. Besides, the manuscript mainly discussed on the basis of precipitation, the title could be revised to be more specific.

Author Comment (AC). We have changed the title to: “Evaluation of modern and mid-Holocene seasonal precipitation of the Mediterranean and northern Africa in the CMIP5 simulations”

RC 2. Since the paleo-climate simulations of MH are coordinated by CMIP5 and PMIP3, it will be better to show PMIP3 somewhere in the manuscript.

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AC 2. The simulations are officially part of CMIP5, although members of PMIP were obviously involved in the design and will take the lead in the analysis of these simulations. To make this clearer, we have modified the sentence (line 19 in p5351) to read: “MH model simulations, made with the same models that are used for future projections, have been made as part of the fifth phase of the Coupled Model Intercomparison Project (CMIP5: Taylor et al., 2012) and are being analysed as part of the third phase of the Palaeoclimate Modelling Intercomparison Project (PMIP3: Bracconnot et al., 2012).”

RC 3. Page 5376, Table 1: please add references for the CMIP5/PMIP3 models.

AC 3. We have added the references for the CMIP5 models in Table1 and in the reference list.

Please also note the supplement to this comment:

<http://www.clim-past-discuss.net/9/C3066/2014/cpd-9-C3066-2014-supplement.pdf>

Interactive comment on Clim. Past Discuss., 9, 5347, 2013.

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Model name	Type	Resolution (number of gridcells: latitude, longitude)			Year length	Simulations			Reference
		Atmosphere	Ocean	Sea ice		midPliocene	pControl	historical	
BCC-CSM1-1	OAC	64, 128	232, 360	232, 360	365	X	X		(Wu et al., 2013)
CCSM	OA	192, 288	303084	303084	365	X	X	X	(Gleckler et al., 2011)
CMRM-CM3	OA	128, 256	232, 362	232, 362	365-366	X	X		(Nakajima et al., 2013)
CSIRO-Mk3.6.0	OA	96, 192	188, 192	96, 192	365	X	X		(Rostarty et al., 2010)
CSIRO-Mk3.1.2	OA	56, 64	128, 125	56, 64	365	X	X		(Phipps et al., 2011)
GISS-E2-R	OA	90, 144	90, 144	90, 144	365	X	X	X	(Schmidt et al., 2014)
HadGEM2-CC	OAC	145, 192	216, 360	216, 360	360	X	X		(Collins et al., 2011)
HadGEM2-ES	OAC	145, 192	216, 360	216, 360	360	X	X		(Collins et al., 2011)
IPSL-CM5A-LR	OAC	96, 96	148, 182	148, 182	365	X	X	X	(Dufresne et al., 2013)
MIROC-ESM	OAC	64, 128	192, 256	192, 256	365	X	X	X	(Watanabe et al., 2011)
MPI-ESM-P	OA	96, 192	220, 256	220, 256	365-366	X	X	X	(Raddatz et al., 2007)
MRI-CGCM3	OA	160, 320	360, 368	360, 368	365	X	X	X	(Yasuda et al., 2011)

Fig. 1. new table 1

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