REPRESENTATION OF THE INTRA-AMERICAS SEA AND NORTH AMERICAN MONSOON IN CMIP5 HISTORICAL AND RCP 4.5 MODEL SIMULATIONS

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Fig. 2. Interannual variations during 1948–2004 of the seasonal (June–September) mean precipitation (mm day$^{-1}$) averaged over the NAM core region from three datasets.
CMIP3 Historical (1961-1990) Period

Liang et al. (JCLIM, 2008)
CMIP5 Small Phase Error Models

CMIP3 Small Phase Error Models

Liang et al. (JCLIM, 2008)
CMIP5 Large Phase Error

CMIP3 Large Phase Error

Liang et al. (JCLIM, 2008)
CMIP5 Small Phase Error Models

CMIP3 MRI Ensembles

Liang et al. (JCLIM, 2008)
CMIP5 Future (2070-2090) – Historical (1979-2005)

Future-Historical RMS Difference

Future-Historical Mean Annual Precipitation Difference

RMS Difference

Annual Change
CMIP5 Historical (1979-2005)

Track Density [number per month per 5° spherical cap]

1. ERAI
2. CanESM2
3. HadGEM2–ES
4. MPI
5. MRI–CGCM3
CMIP5 Historical (1979-2005)
CMIP5 Future (2070-2090) – Historical (1979-2005)
Thank You!
CMIP3 JJA Precipitation

% Change in Precipitation

Number of Models > 0

Christensen et al. (AR4, 2007)
Dynamical Downscaling of CMIP3 and Model Bias

Liang et al. (GRL, 2008)
Small Phase Error: 1979-2005

Moderate Phase Error: 1979-2005