

Auxiliary material for Paper 2011GL047291

The reversal of the multi-decadal trends of the equatorial Pacific easterly winds, and the Indonesian Throughflow and Leeuwin Current transports.

Ming Feng¹, Claus Böning², Arne Biastoch², Erik Behrens², Evan Weller¹, Yukio Masumoto^{3,4}

¹CSIRO Marine and Atmospheric Research, Floreat, Western Australia, Australia

²Leibniz-Institut für Meereswissenschaften, Kiel, Germany

³Frontier Research Center for Global Change, JAMSTEC, Yokohama, Japan

⁴Department of Earth and Planetary Science, University of Tokyo, Tokyo, Japan

Introduction

This is a collection of fourteen figures and a table that are cited and discussed in the main text of this paper.

1. 2011GL047291-fs01.pdf

Scatter plot between equatorial Pacific easterly winds and Indonesian Throughflow transport in AOGCMs.

2. 2011GL047291-fs02.tif

Time series of average zonal wind stress along equatorial Pacific in AOGCMs.

3. Table S1

Table S1: IPCC AR4 models, their ocean model resolution¹, flux adjustments² and forcing characteristics³

Figure S1

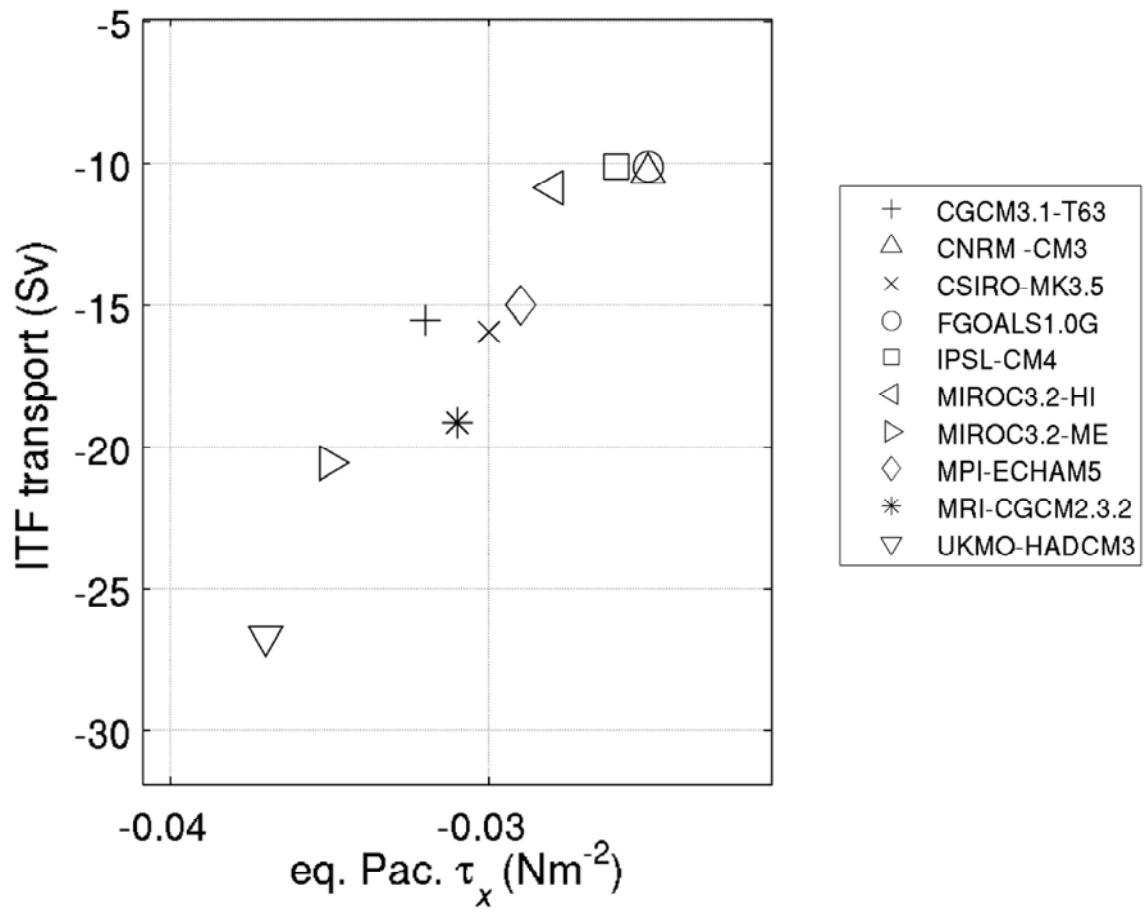


Figure S2

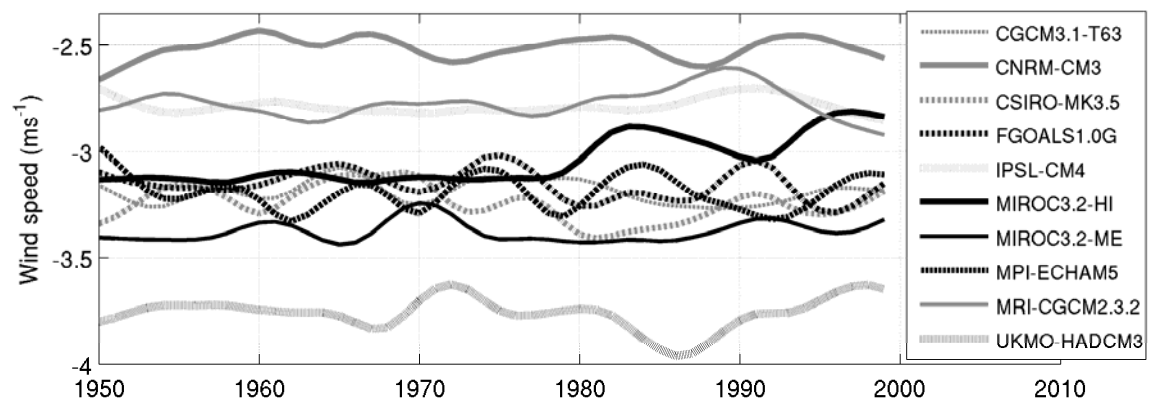


Table S1: IPCC AR4 models, their ocean model resolution¹, flux adjustments² and forcing characteristics³

Model/Data	Ocean grid	Source	Flux Adjustment	Forcing
CGCM3.1-T63	1.4 x 0.9 x 29	Canada	H,W	-
CNRM-CM3	1.9 x (0.5-2) x 33	France	X	All -O
CSIRO-MK3.5	1.9 x 0.9 x 31	Australia	X	-
FGOALS1.0G	1 x 1 x 33	China	X	All
IPSL-CM4	2 x (1-2) x 33	France	X	All -O
MIROC3.2-HI	1.12 x 0.56 x 48	Japan	X	All
MIROC3.2-ME	1.4 x (0.5-1.4) x 33	Japan	X	All
MPI-ECHAM5	1 x 1 x 40	Germany	X	All
MRI-CGCM2.3.2	2.5 x (0.5-2) x 23	Japan	H,M,W	All -O
UKMO-HADCM3	1.25 x 1.25 x 20	UK	X	All

¹ Grid resolution (° longitude x ° latitude x number of vertical levels)

² Adjustments to heat (H), momentum (M) and water (W) fluxes

³ ALL - greenhouse gases (e.g. CO₂, CH₄, N₂O, halo carbons), ozone and sulphate aerosols; O - no anthropogenic ozone