θ -S structure of the AMOC in highresolution ocean simulations and in CMIP5 models

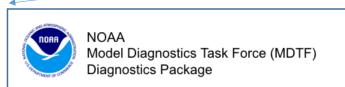
Center for Ocean-Atmospheric Prediction Studies/Florida State
University

Xiaobiao Xu & Fuchang Wang



MDTF Variability Diagnostics3D Structures of AMOC

3D Structures of AMOC plots



plot

plot

plot

3D Structures of AMOC

One Latitude (26.5N)

GFDL-CM2p1

	Transport Q(x,z)	Streamfunction $\Psi_z(z)$	Temperature $\theta(x,z)$	$\theta(z)$	Salini	ty S(x,z)	S(z)		Q(θ,S)	$\Psi_{\sigma}(\sigma)$	$\Psi_{\theta}(\theta)$	$\Psi_S(S)$
Observation or High-res Model		plot	plot	plot	I	olot	plot		plot	plot	plot	plot
GFDL-CM2pl	plot	plot	plot	plot	I	olot	plot		plot	plot	plot	plot
Latitudinal Variation												
	Layer Q(y)	Layer $\theta(y)$	Layer $S(y)$ $\Psi_z(y,z)$	$\Psi_{\sigma}\!\left(\mathbf{y,}\sigma\right)$	$\Psi_{\theta}(y,\theta)$ Ψ_{S}	(y,S)	Heat Transport	Freshwater Tansport				
High-res Model	plot	plot	plot plot	plot	plot p	olot	plot	plot				

plot

plot

plot

plot

plot

plot

Directory and files configuration in brief



