

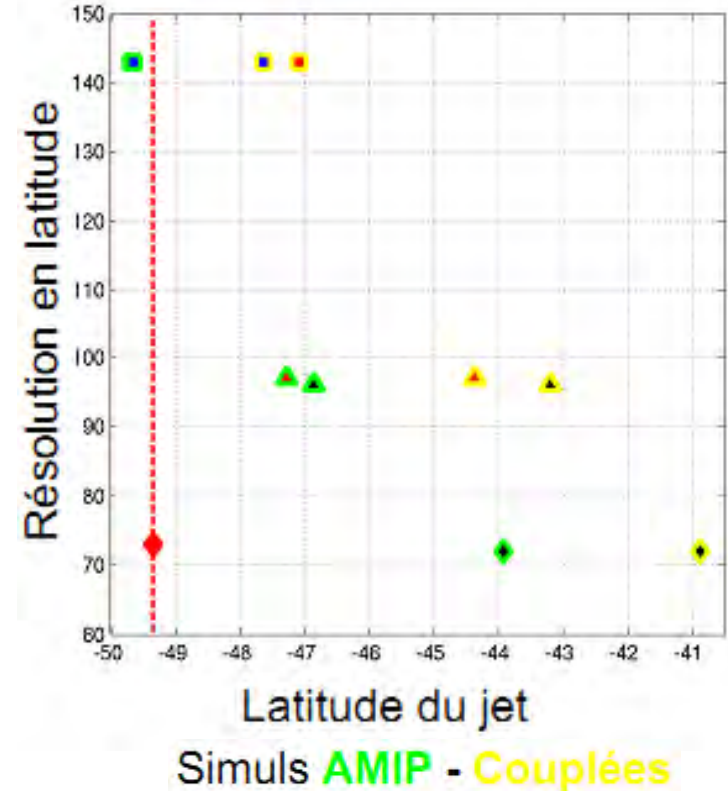
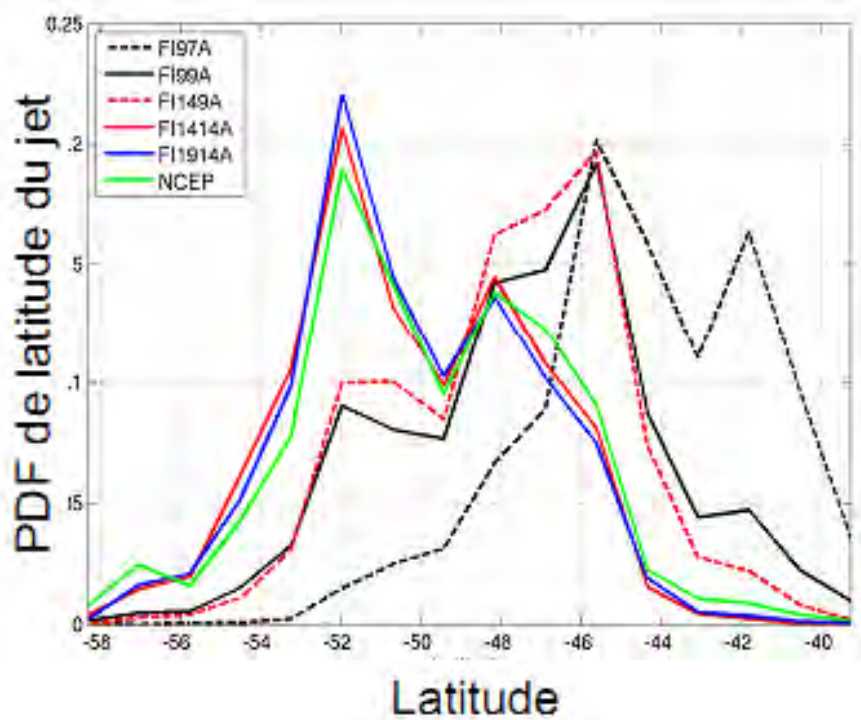
Impact of horizontal resolution on the eddy-driven jets: mean state and variability

Francis Codron, Ara Arakelian, Virginie Guémas

Simulations à 19 niveaux verticaux, résolution horizontale variable:
Coplées, ou forcées par SST interannuelles AMIP.

1. Hémisphère sud – été

Jet simple, situation proche de symétrie zonale



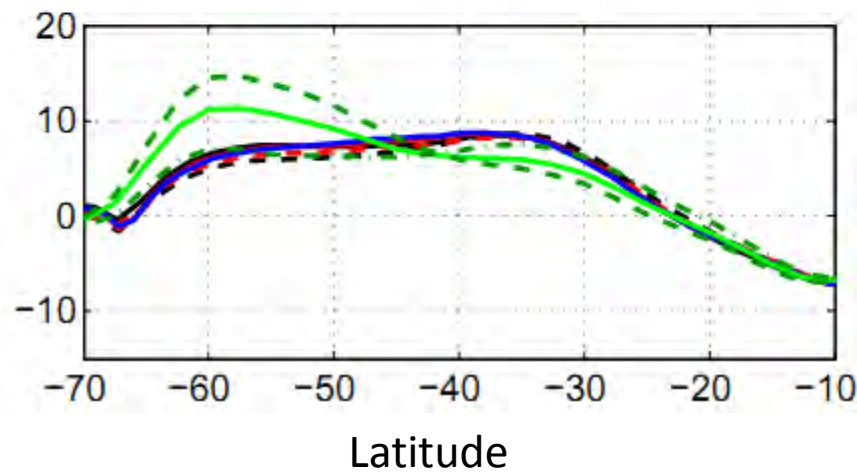
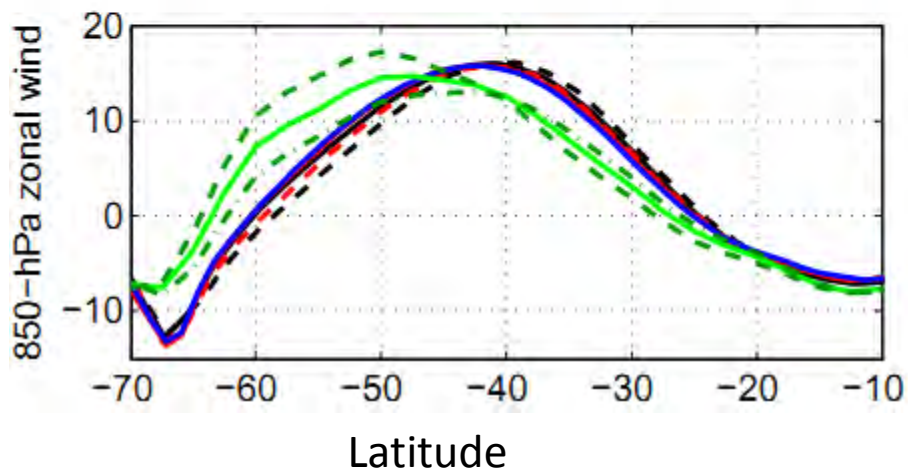
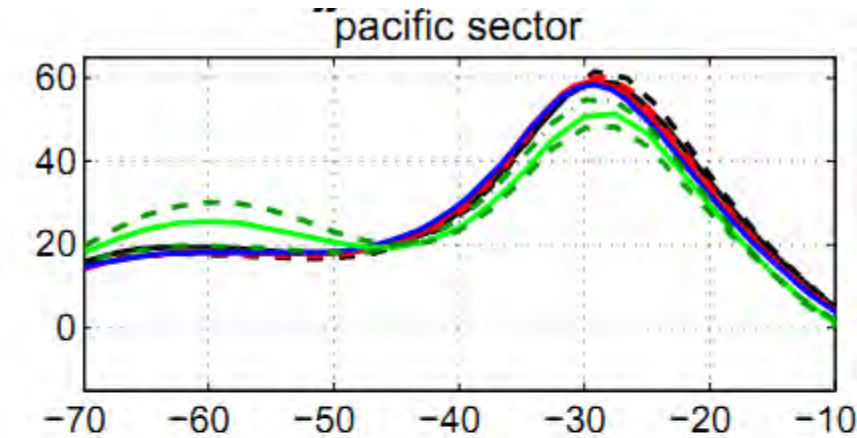
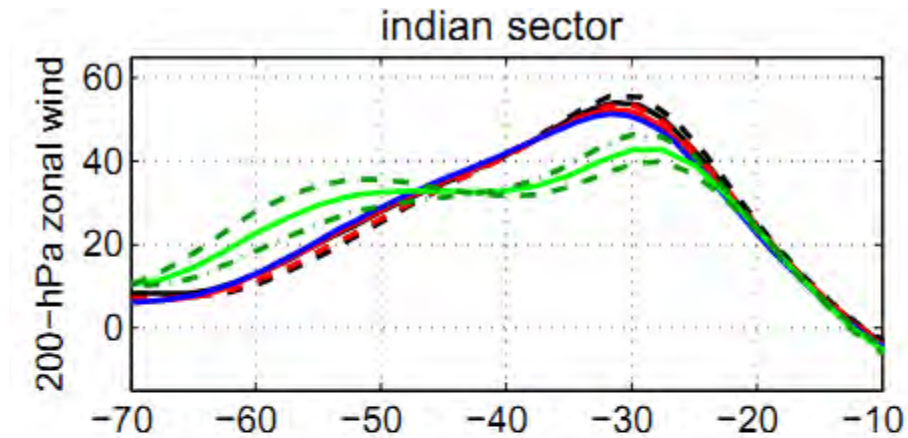
Egalement, quand la résolution – et la latitude du jet – augmente:

- Skewness tend vers 0
- Variance stable, mais
- Autocorrélation diminue

2. Hémisphère sud – hiver

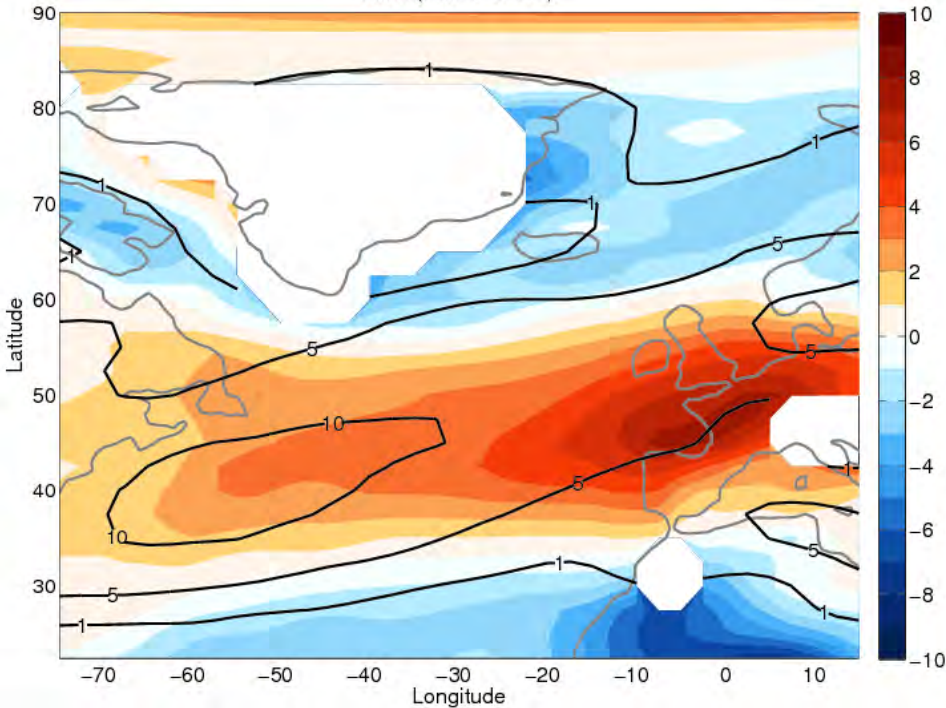
Présence d'un fort jet subtropical dans l'Indo-Pacifique

Vent moyen NCEP et simuls AMIP



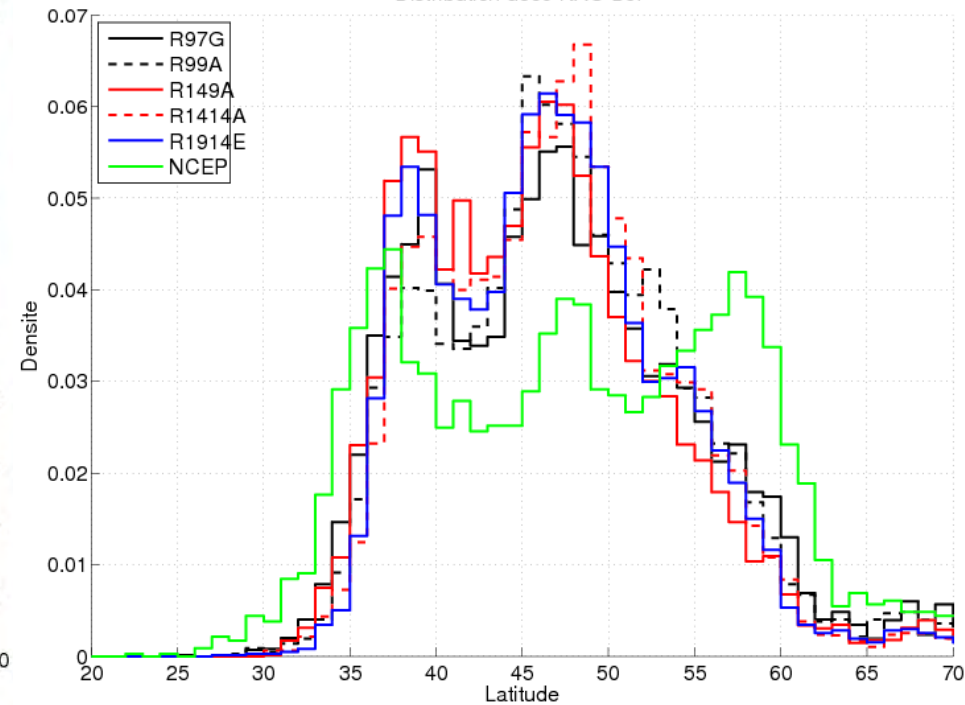
3. Atlantique nord – hiver

u850 (R99A–NCEP)



Vent zonal 850-hPa:
Observations (contours),
Biais (couleur)

Distribution u850 NAO DJF

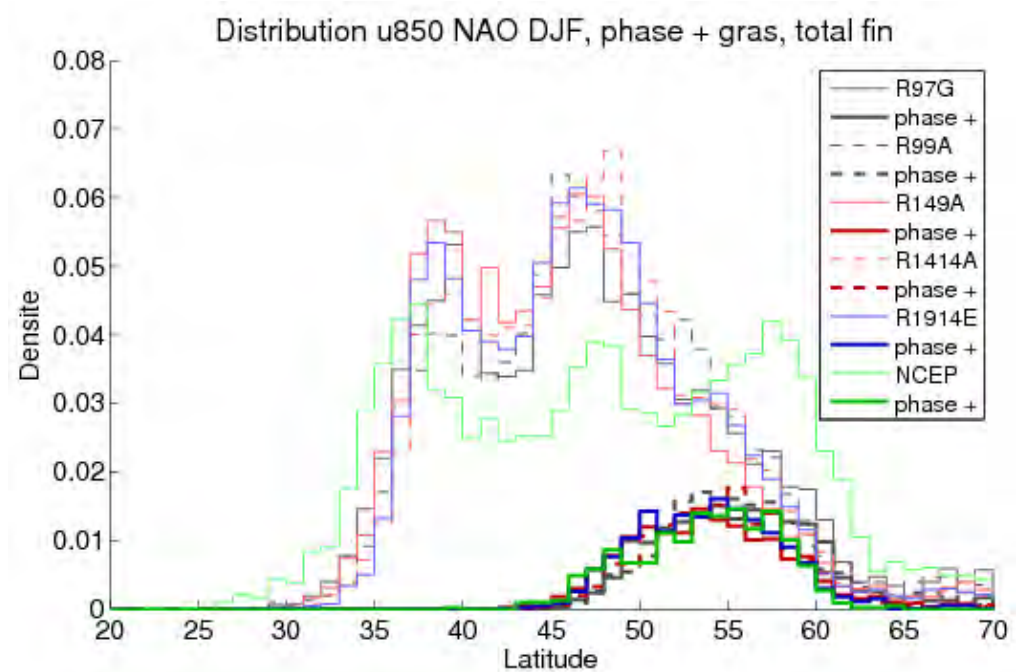


Distribution de la position du jet
(simulations couplées)

3. Atlantique nord – hiver

Gras: $NAO > 1\sigma$

Distributions de la position du jet
Simulations couplées



Gras: $NAO < -1\sigma$

