

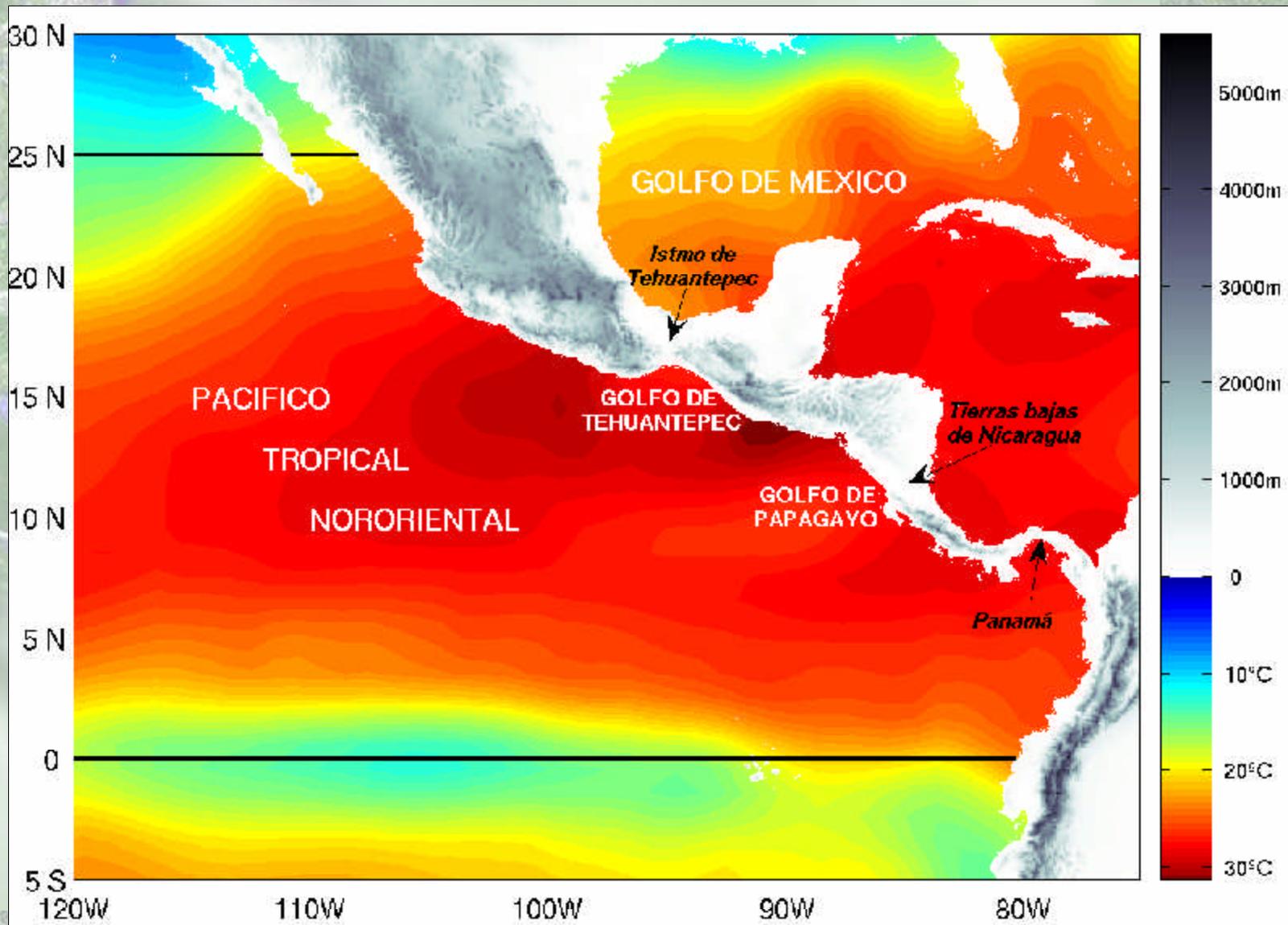


Dinámica del Pacífico nororiental tropical

Jorge Zavala-Hidalgo

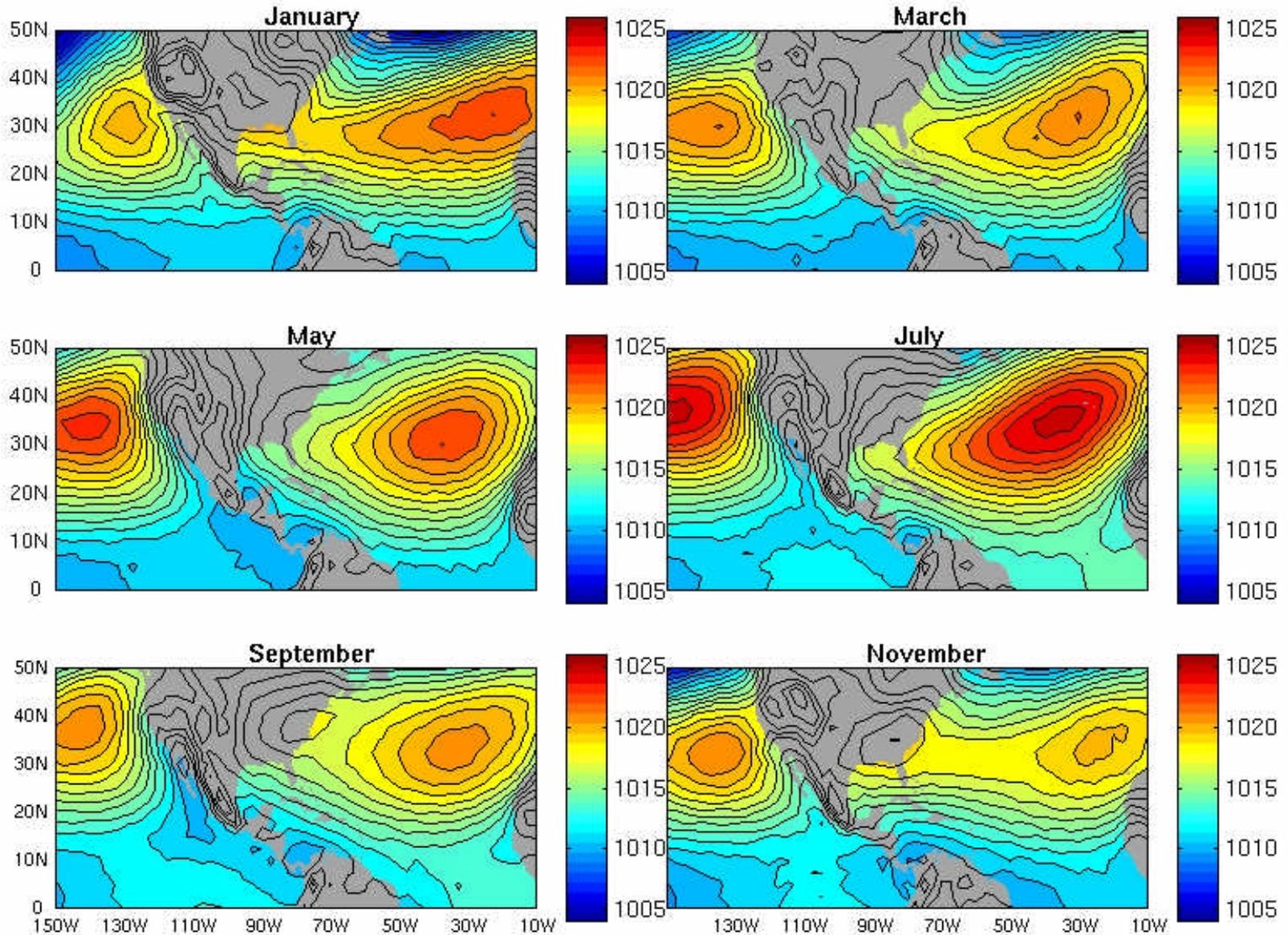
**2do. Curso sobre Ciclones Tropicales con énfasis
en el Pacífico Oriental**

Marzo 2009, Acapulco, Gro.



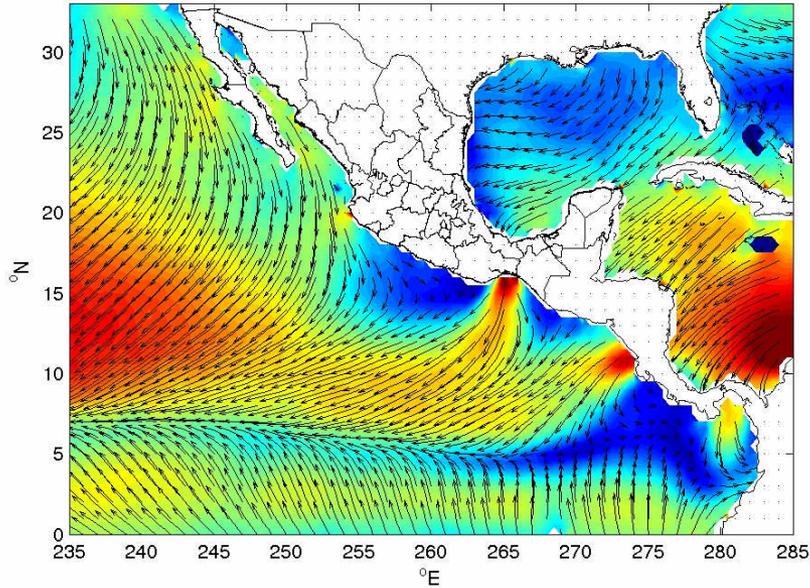
Romero-Centeno, 2007

Climatología de la presión al nivel del mar

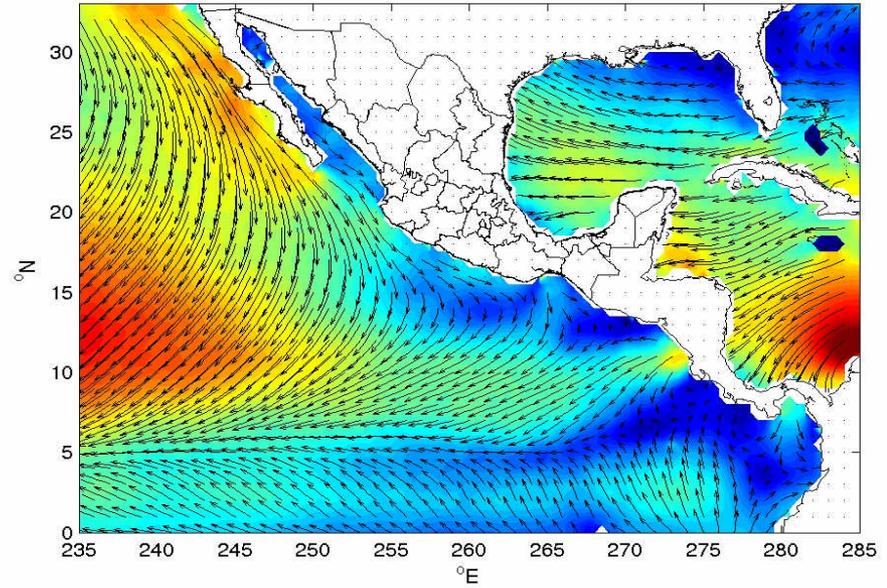


Vientos promedio mensuales a 10 m (QSCAT)

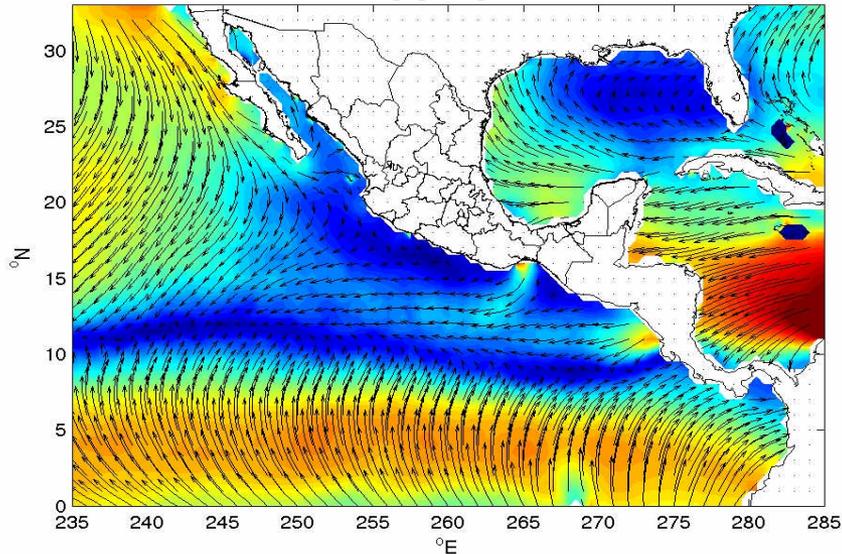
ENERO



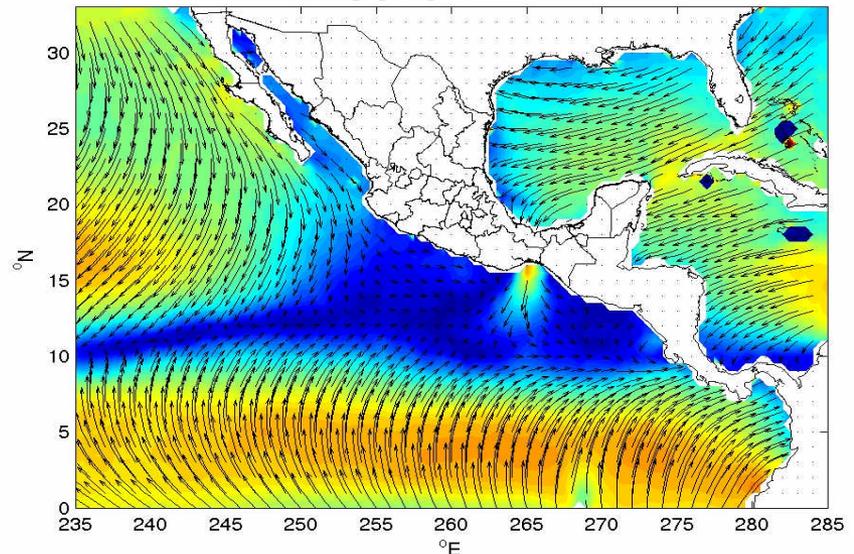
ABRIL



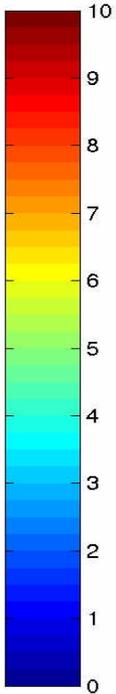
JULIO



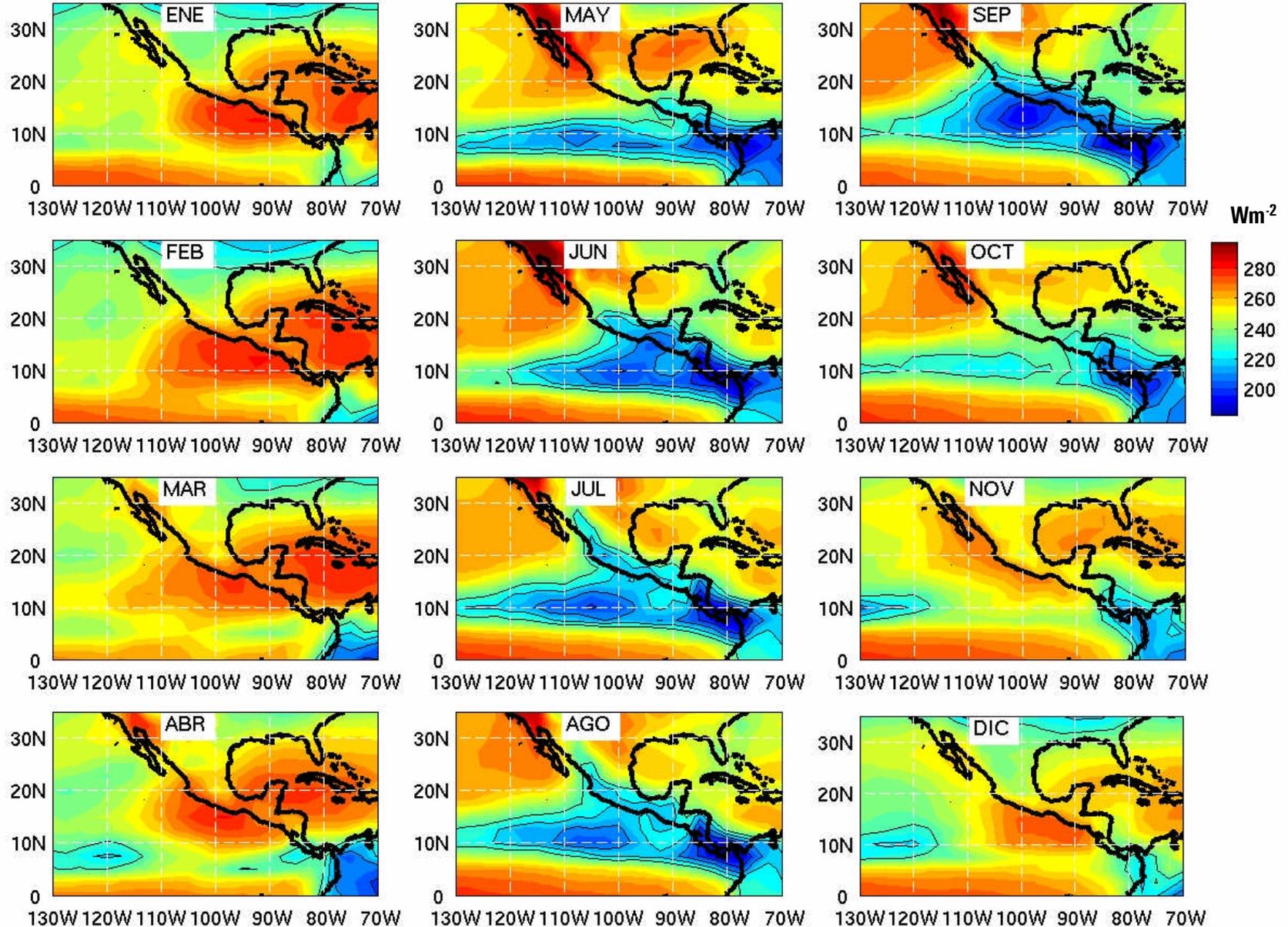
OCTUBRE



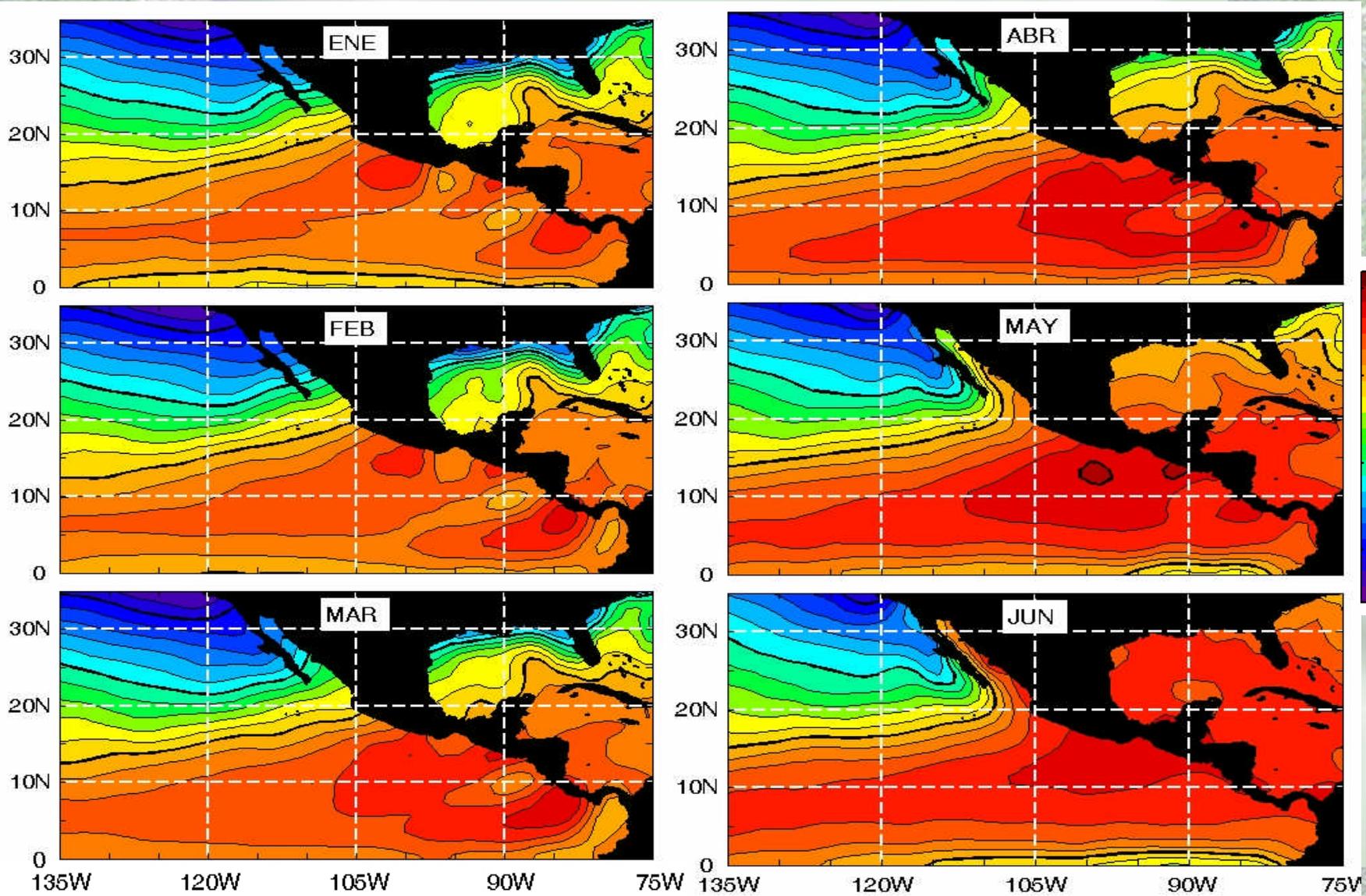
m/s



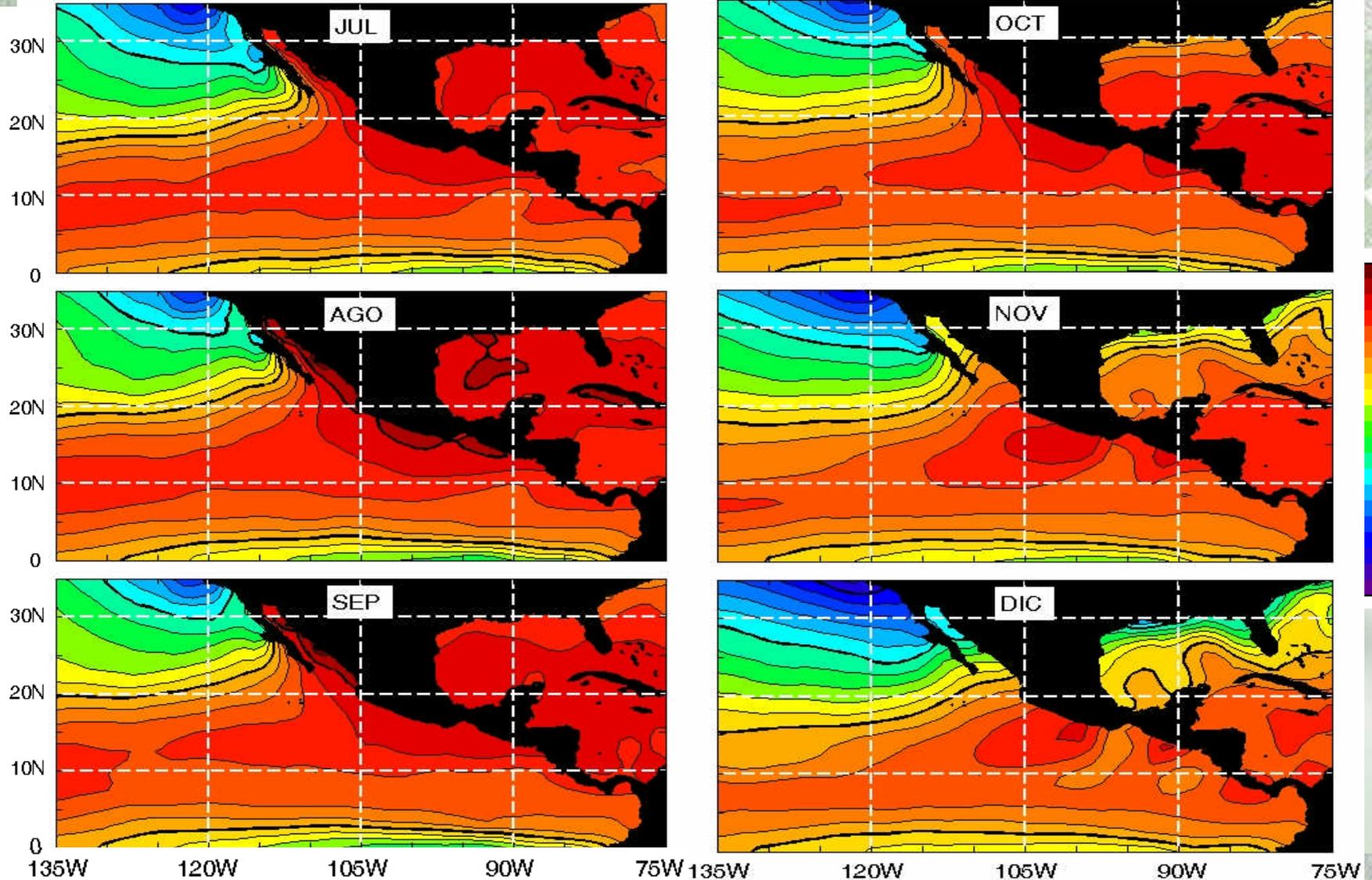
Climatología de la radiación de onda corta



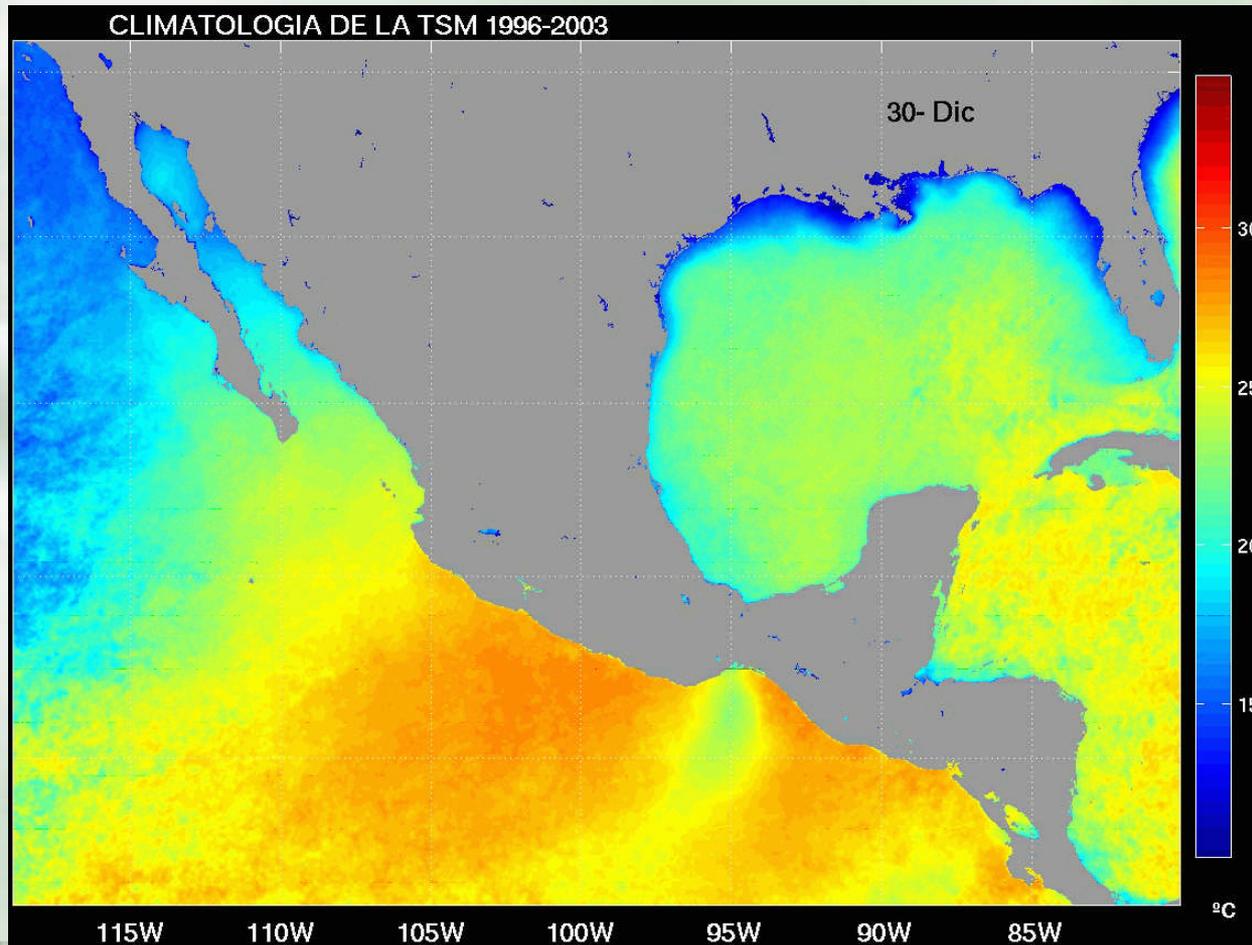
Temperatura superficial promedio del océano



Temperatura superficial promedio del océano

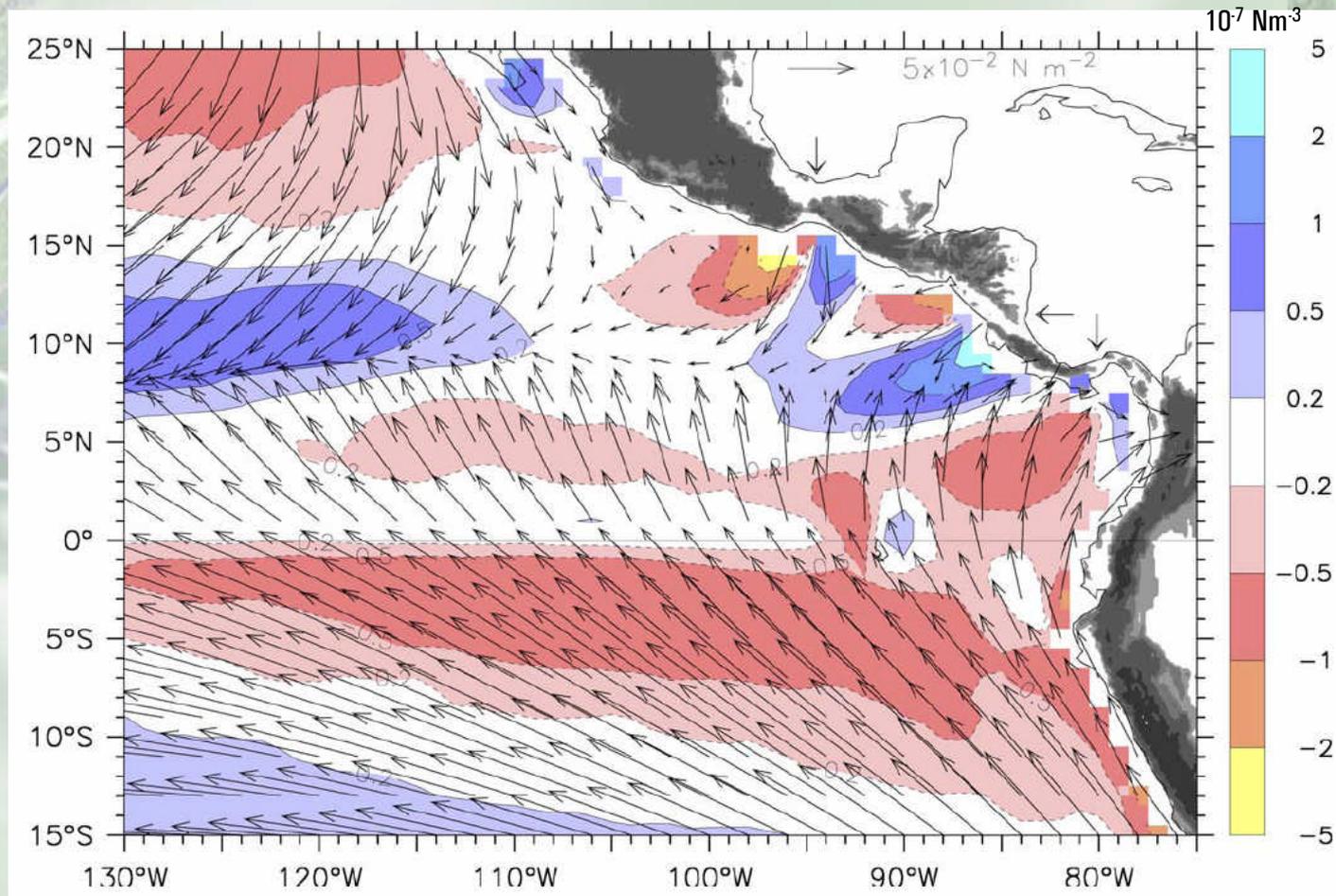


Ciclo anual de la temperatura superficial del océano



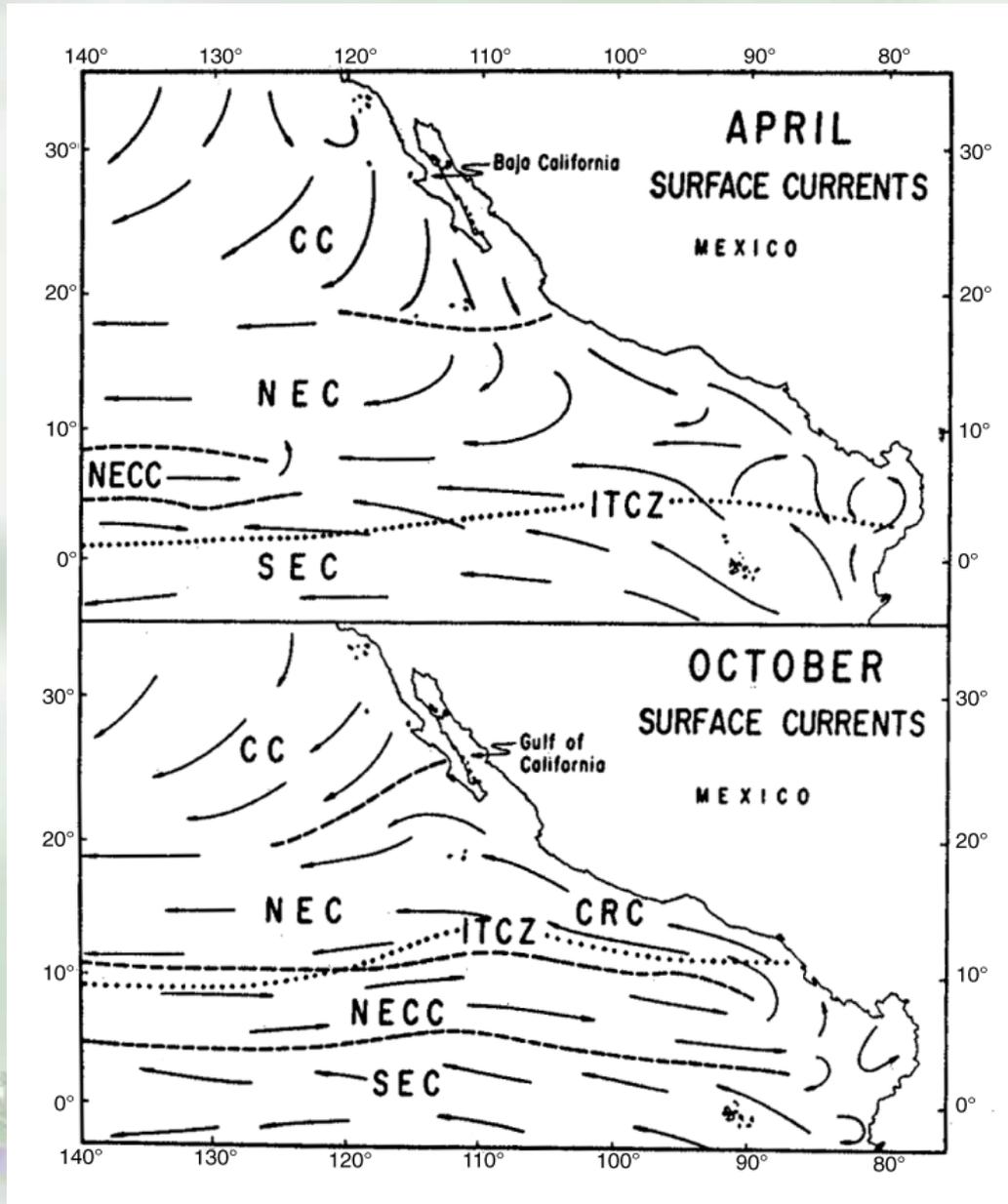
Gallegos et al., en prensa

Esfuerzo del viento (vectores) y rotacional del esfuerzo del viento (color)

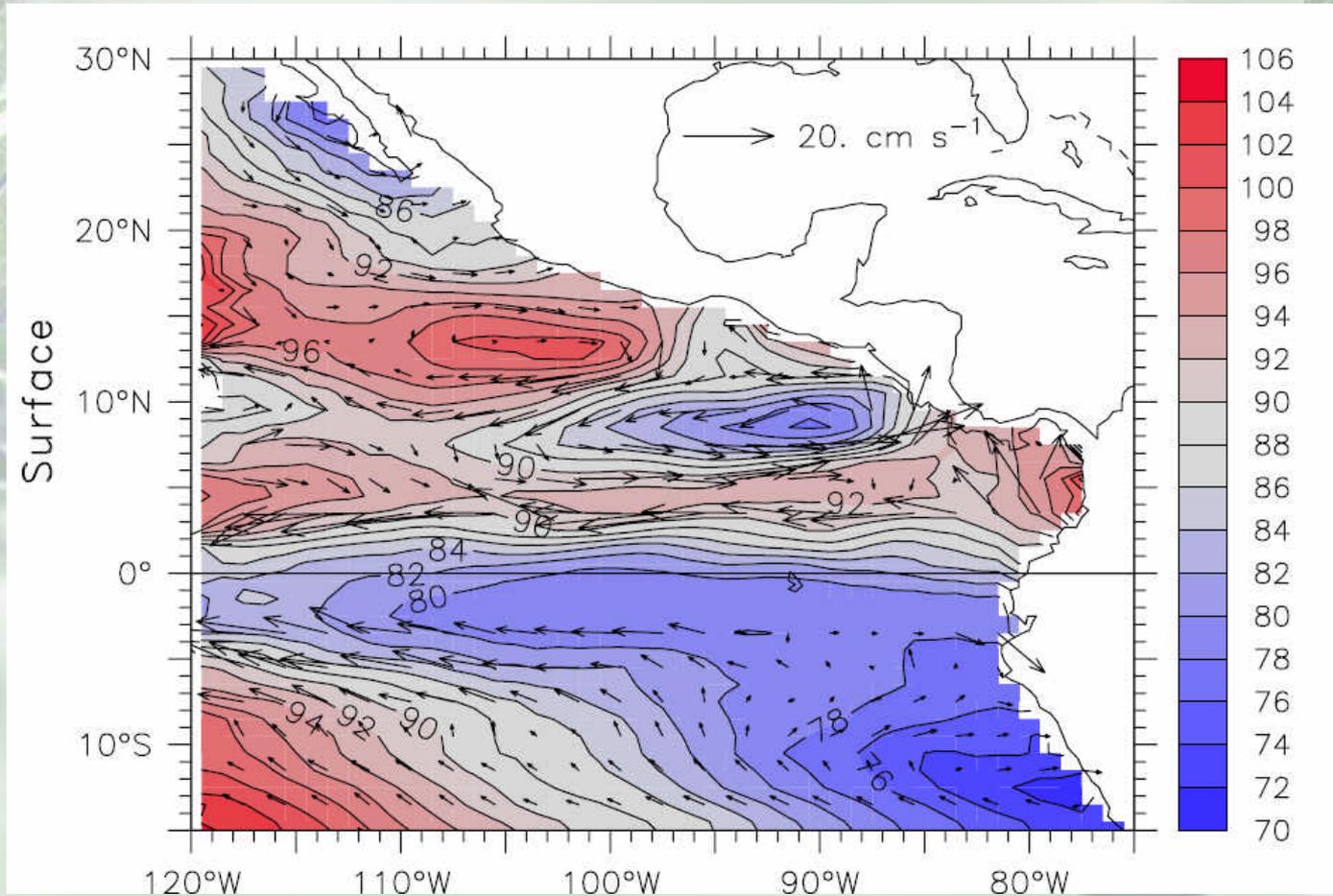


Kessler, 2006

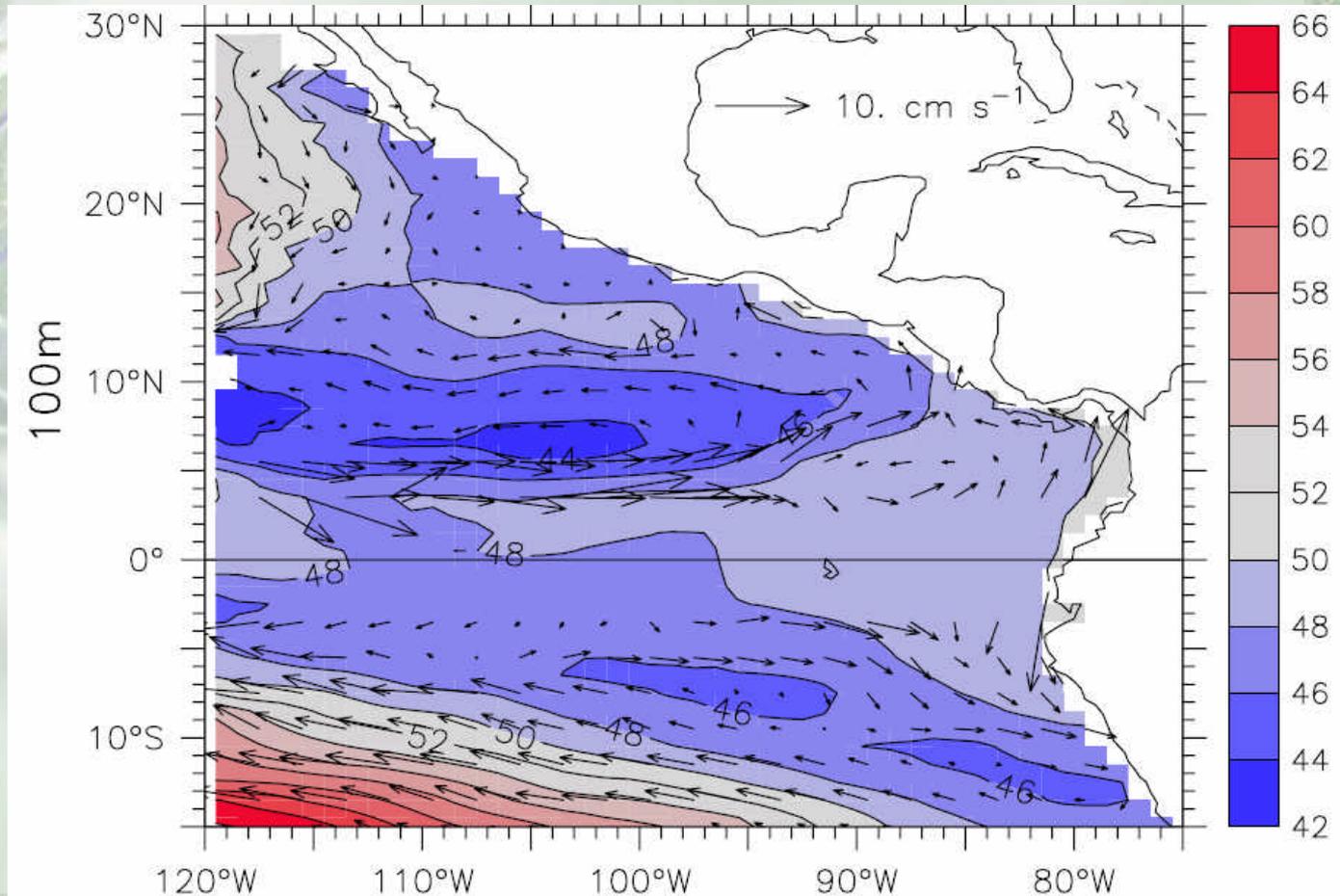
Corrientes superficiales (Wyrтки, 1965)



Altura dinámica y corrientes geostróficas en superficie relativas a 400 m

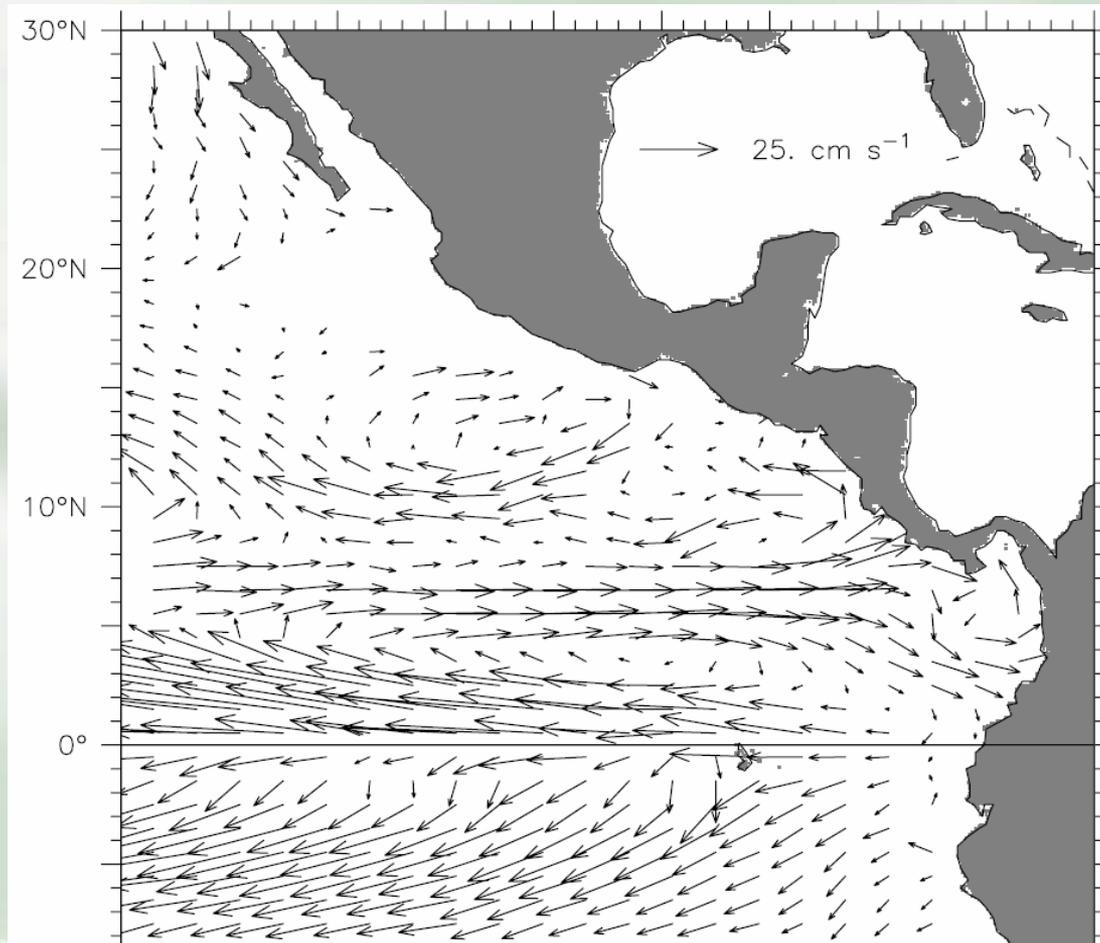


Altura dinámica y corrientes geostróficas a 100 m relativas a 400 m



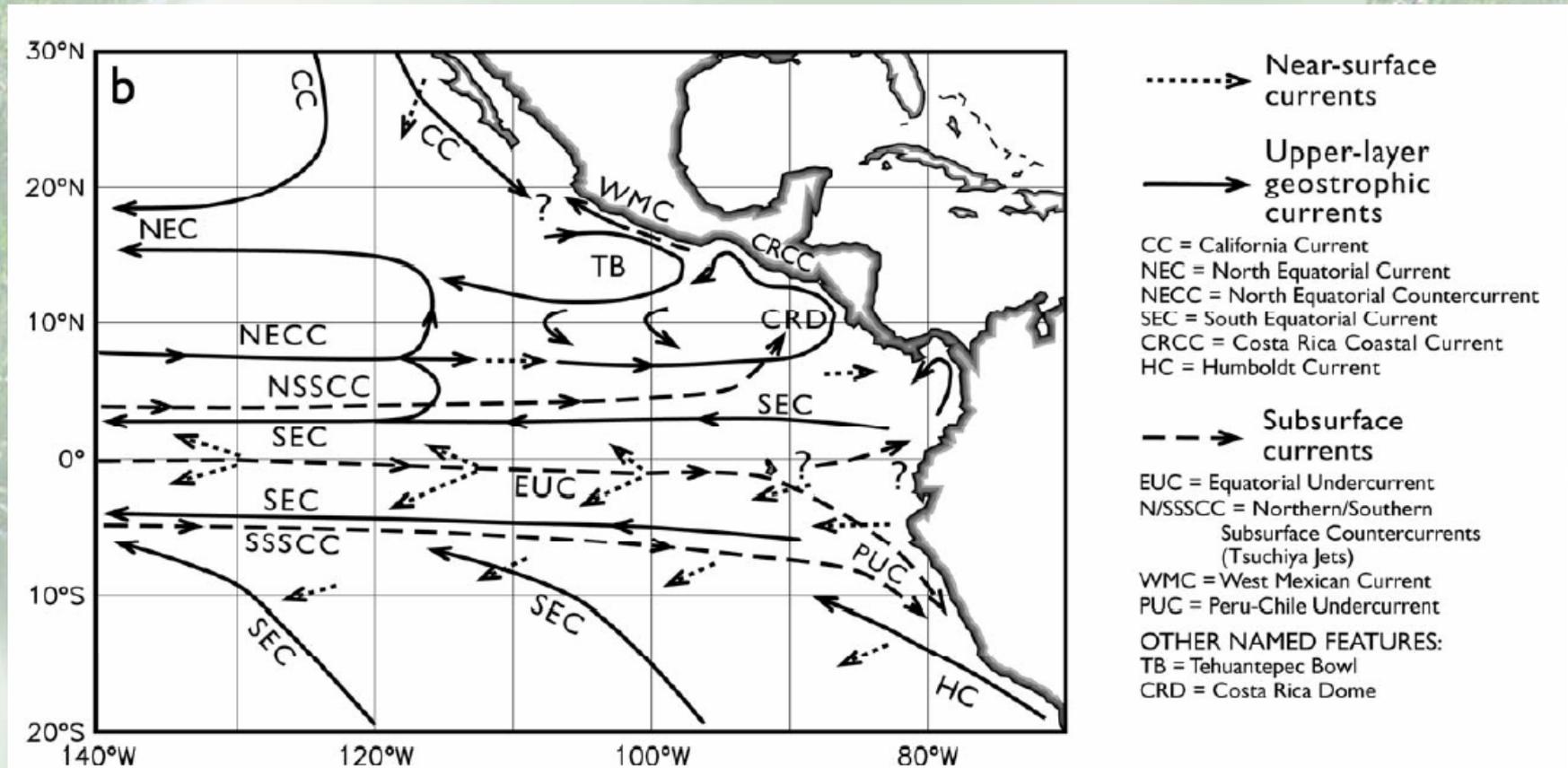
Kessler, 2006

Corrientes superficiales medias a partir de derivadores

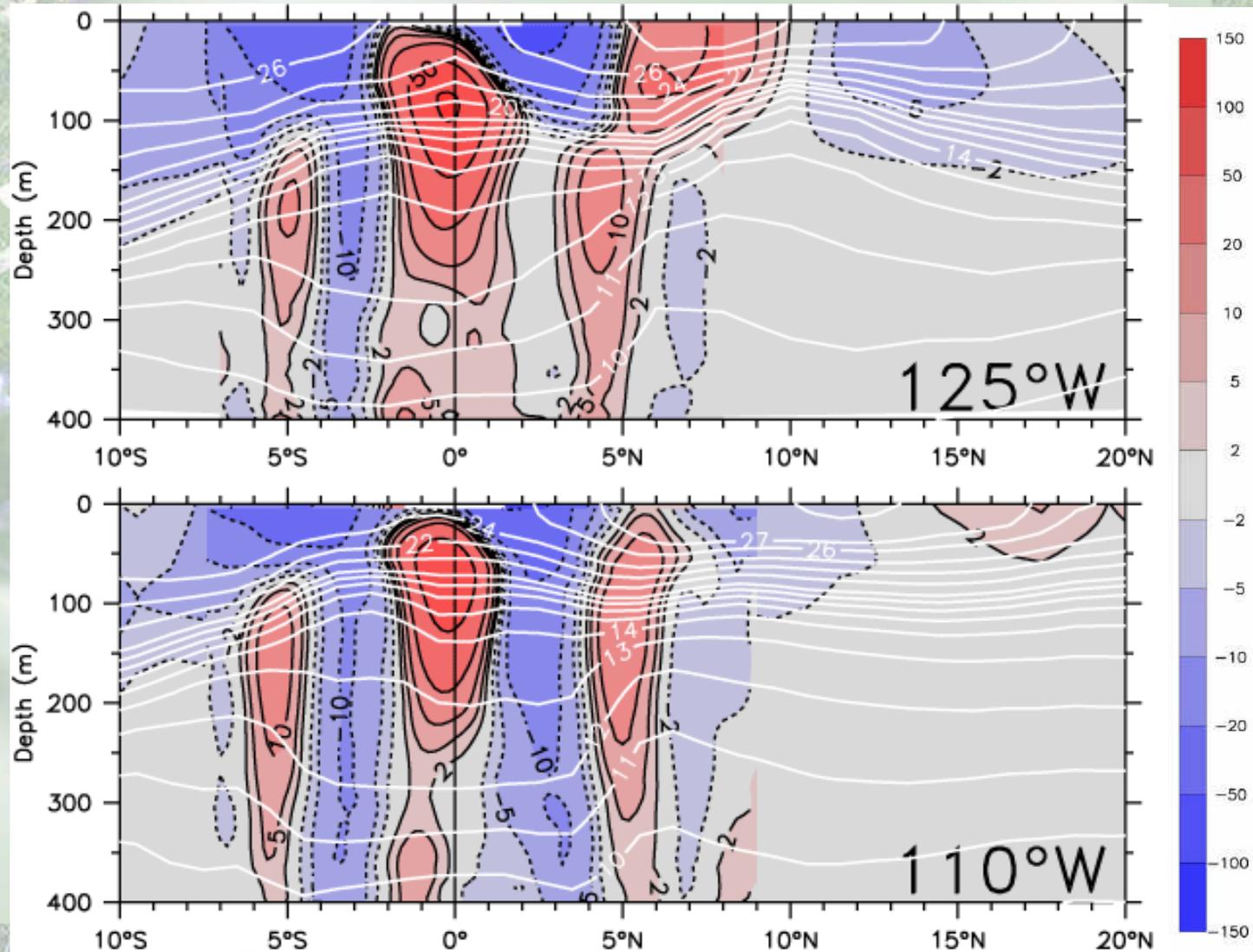


Kessler, 2006

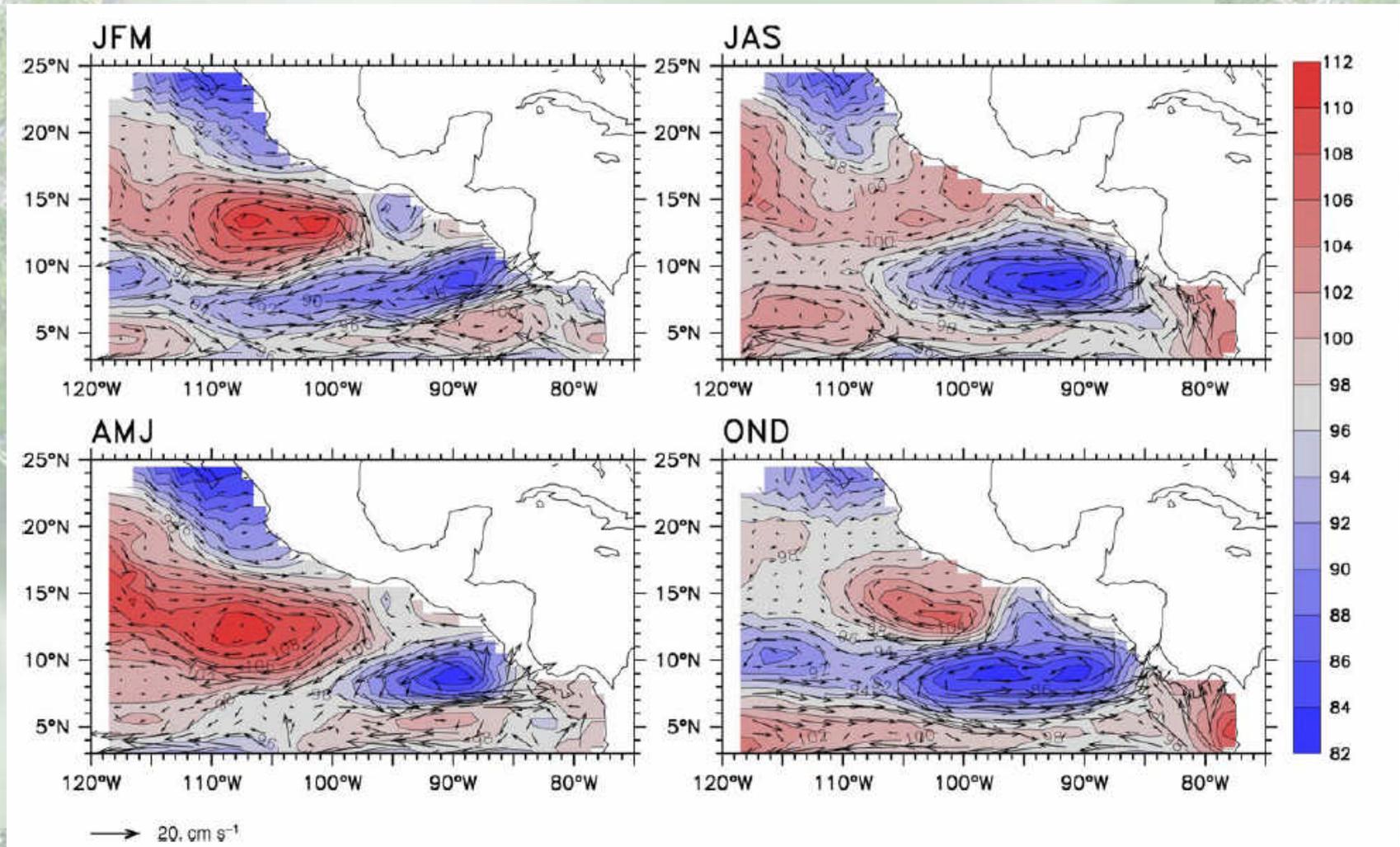
Visión actual de las corrientes superficiales medias



Corte meridional de las corrientes en 110W y 125W



Ciclo anual de la altura dinámica y corrientes geostróficas en superficie (relativas a 450 m)



Temperatura Superficial del Océano

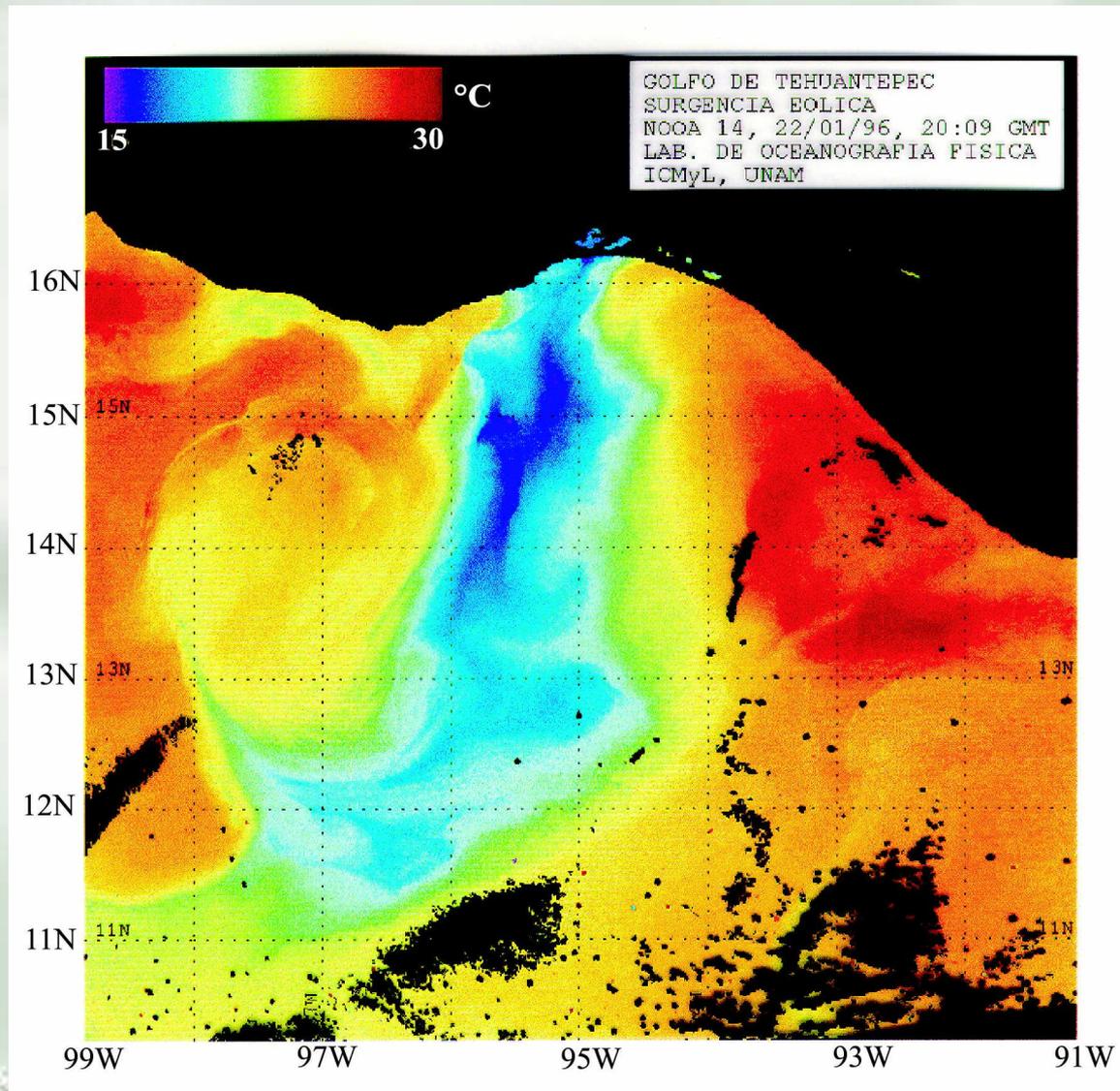
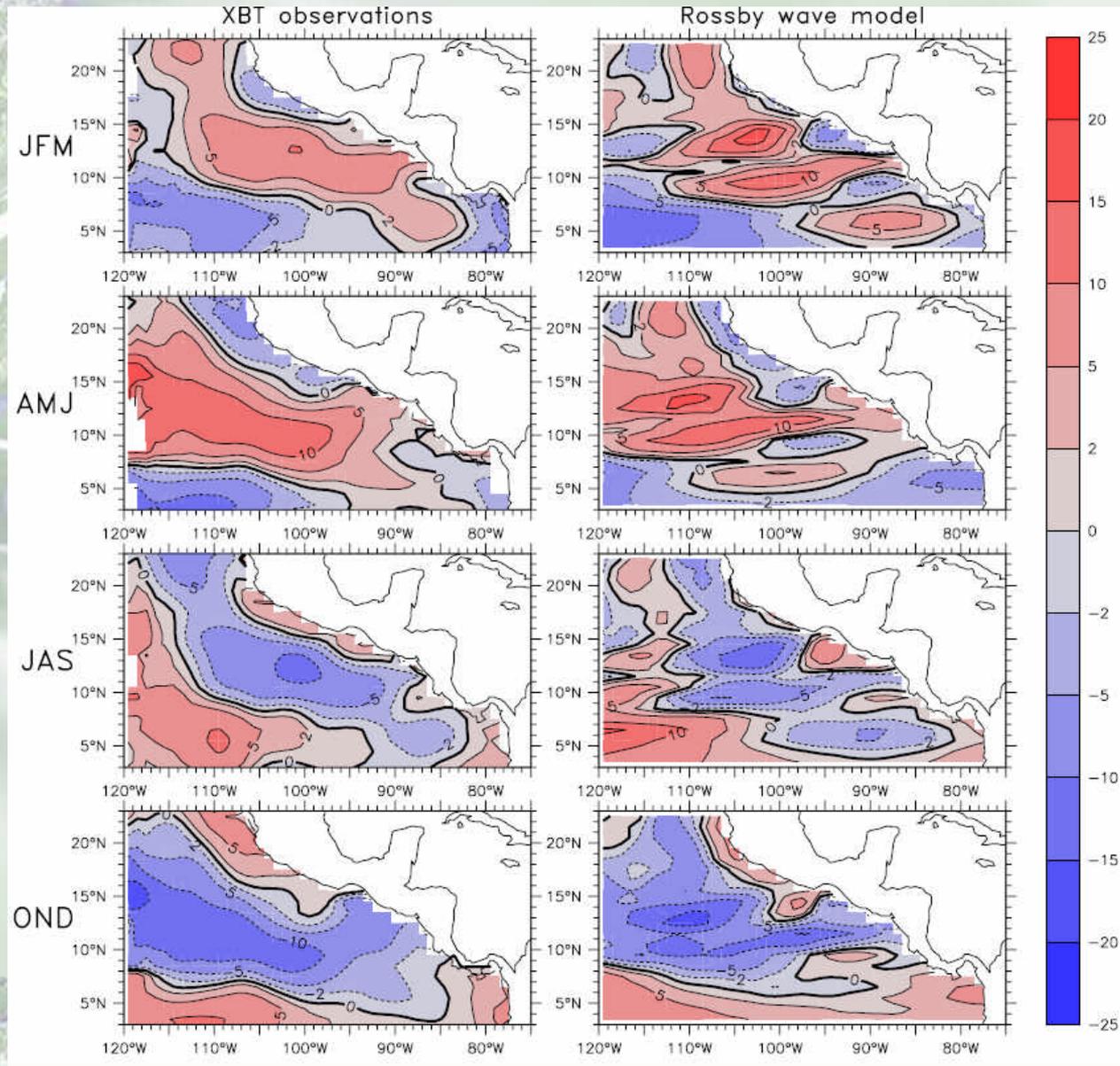
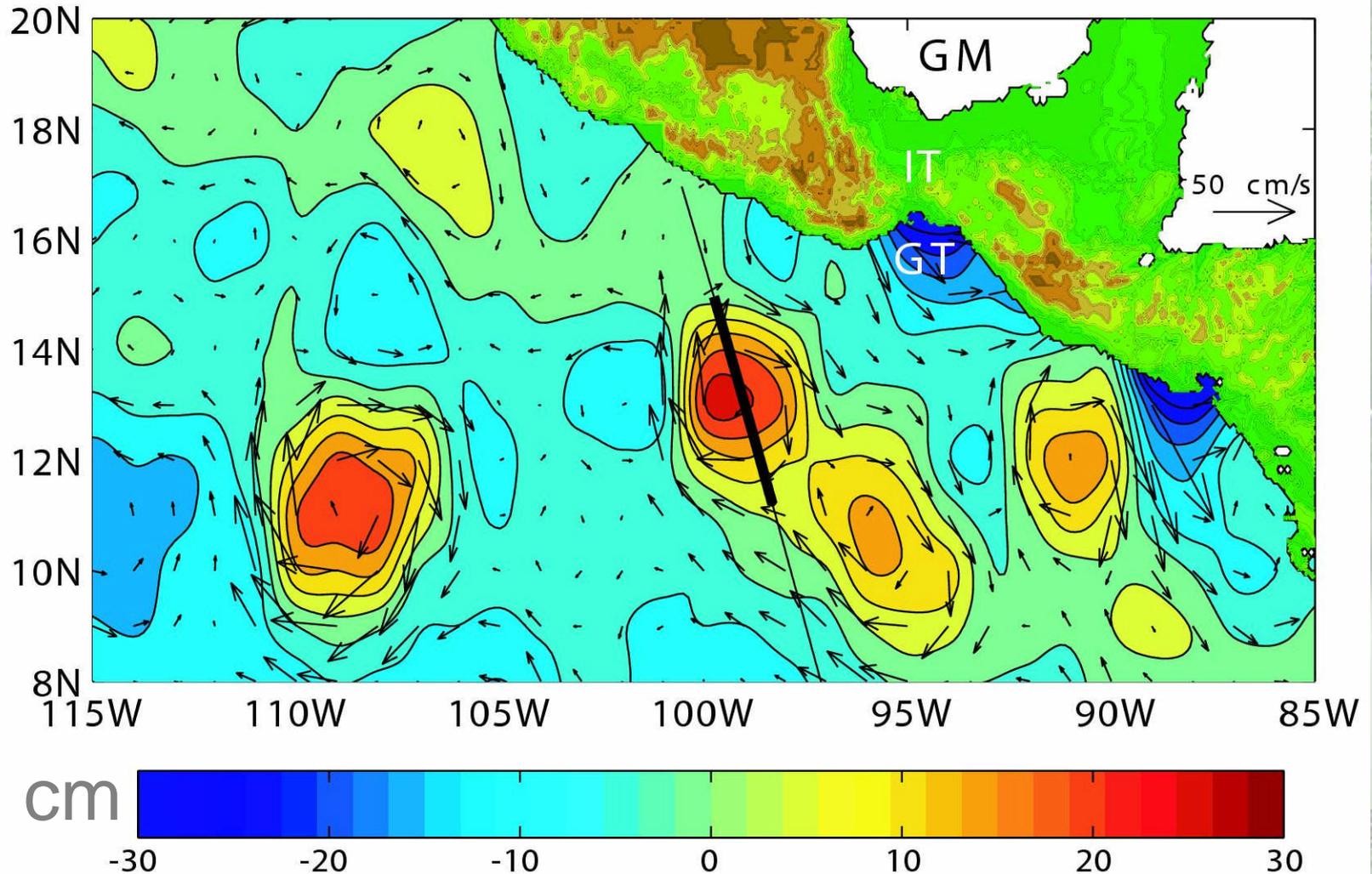


Figura procesada por Agustín Fernández (UNAM)

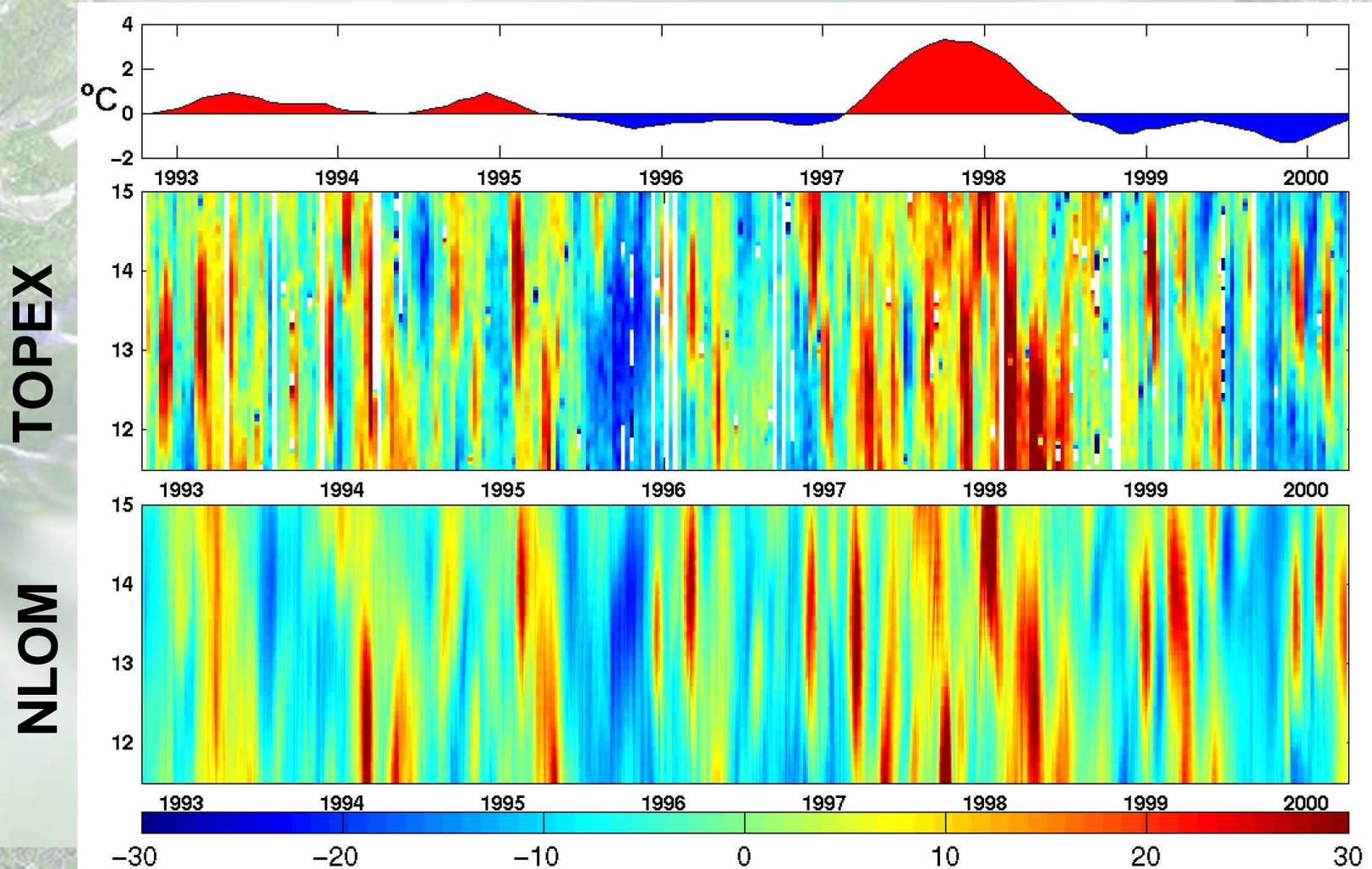
Ondas de Rossby



Nivel del Mar medido por TOPEX/Poseidon



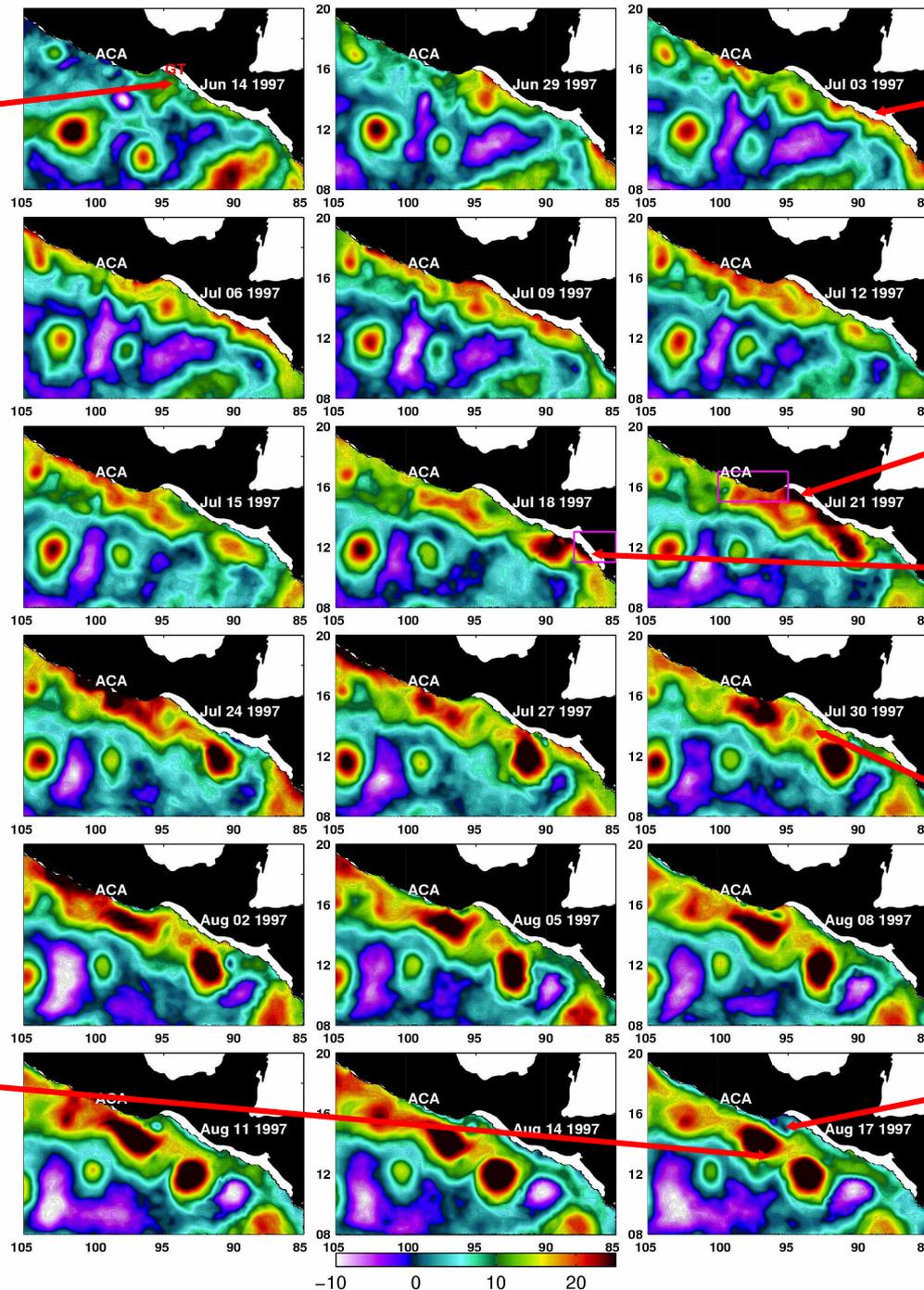
Nivel del mar medido por TOPEX/Poseidon y simulado con NLOM



No existen **1**
remolinos
ni ondas
en la costa

*Nivel del
mar
simulado
por
NLOM*

Inicia la **6**
fusión de los
remolinos



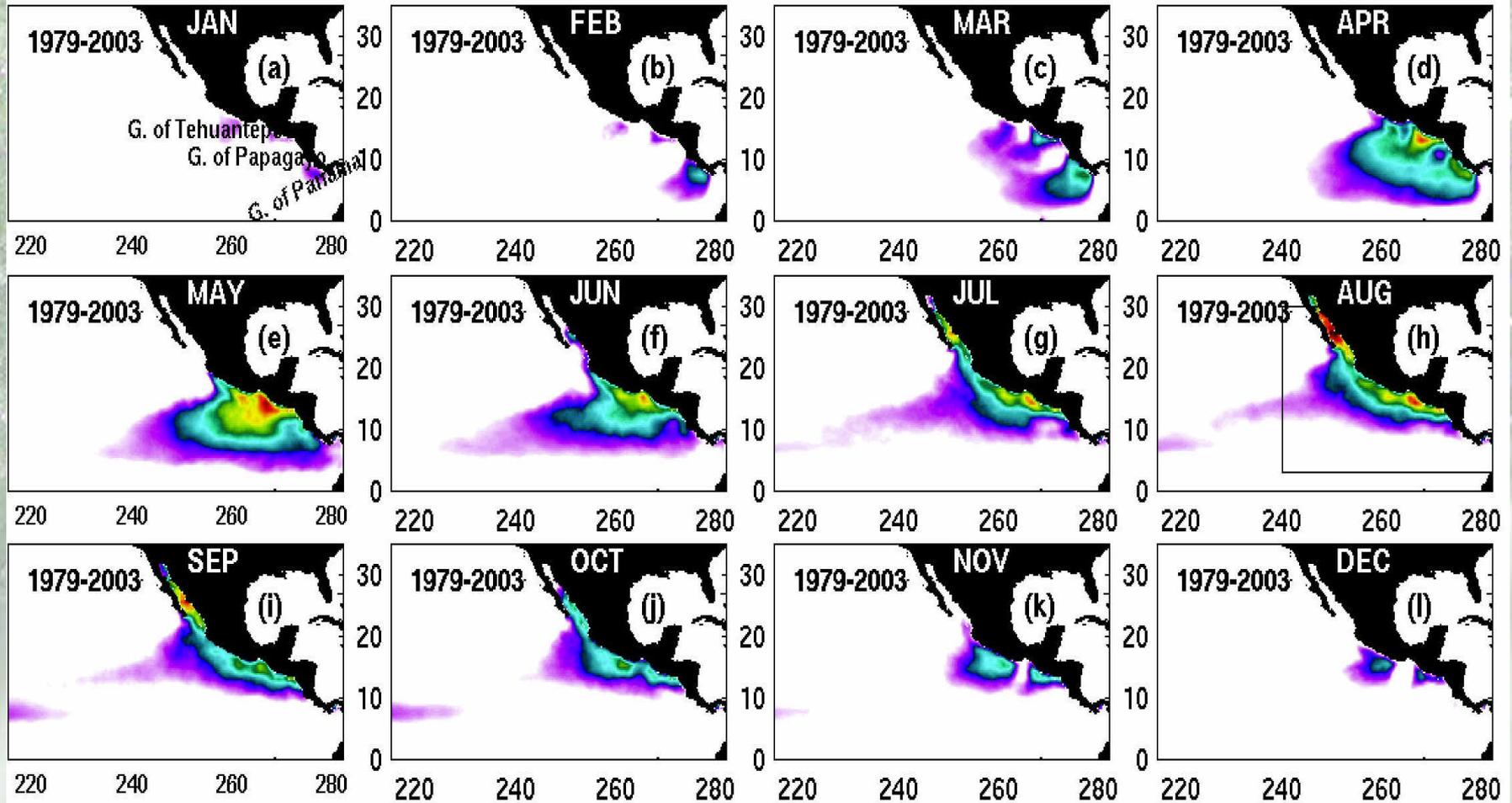
Onda **2**
atrapada a
la costa
interannual

Onda **3**
atrapada a la
costa
intraestacional

Formación
de
remolinos **4**

Generación
de ondas **5**
de Rossby

EPWP 1979-2003 climatología



28

29

30

31

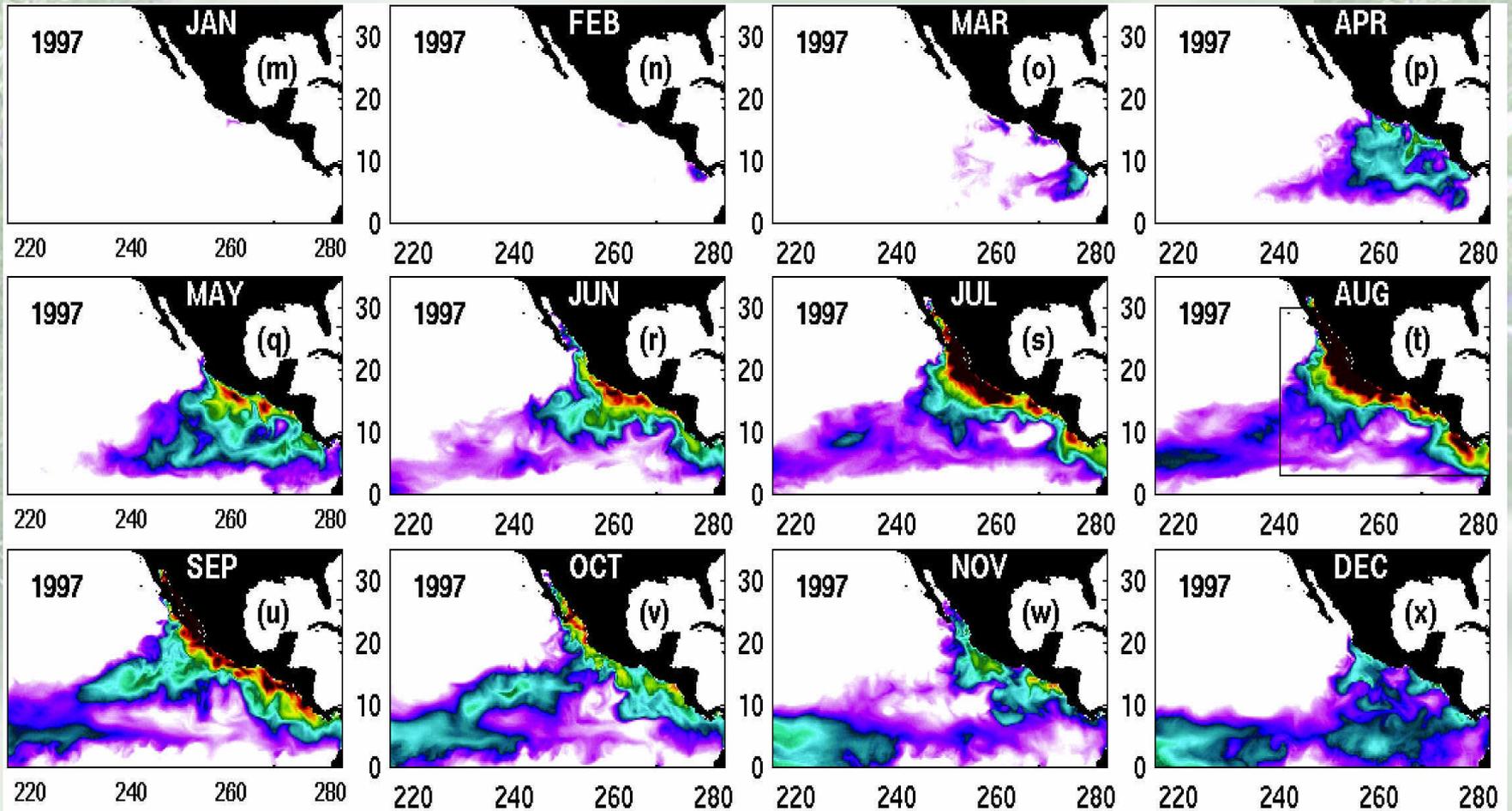
28

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EPWP 1997



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EPWP 1999

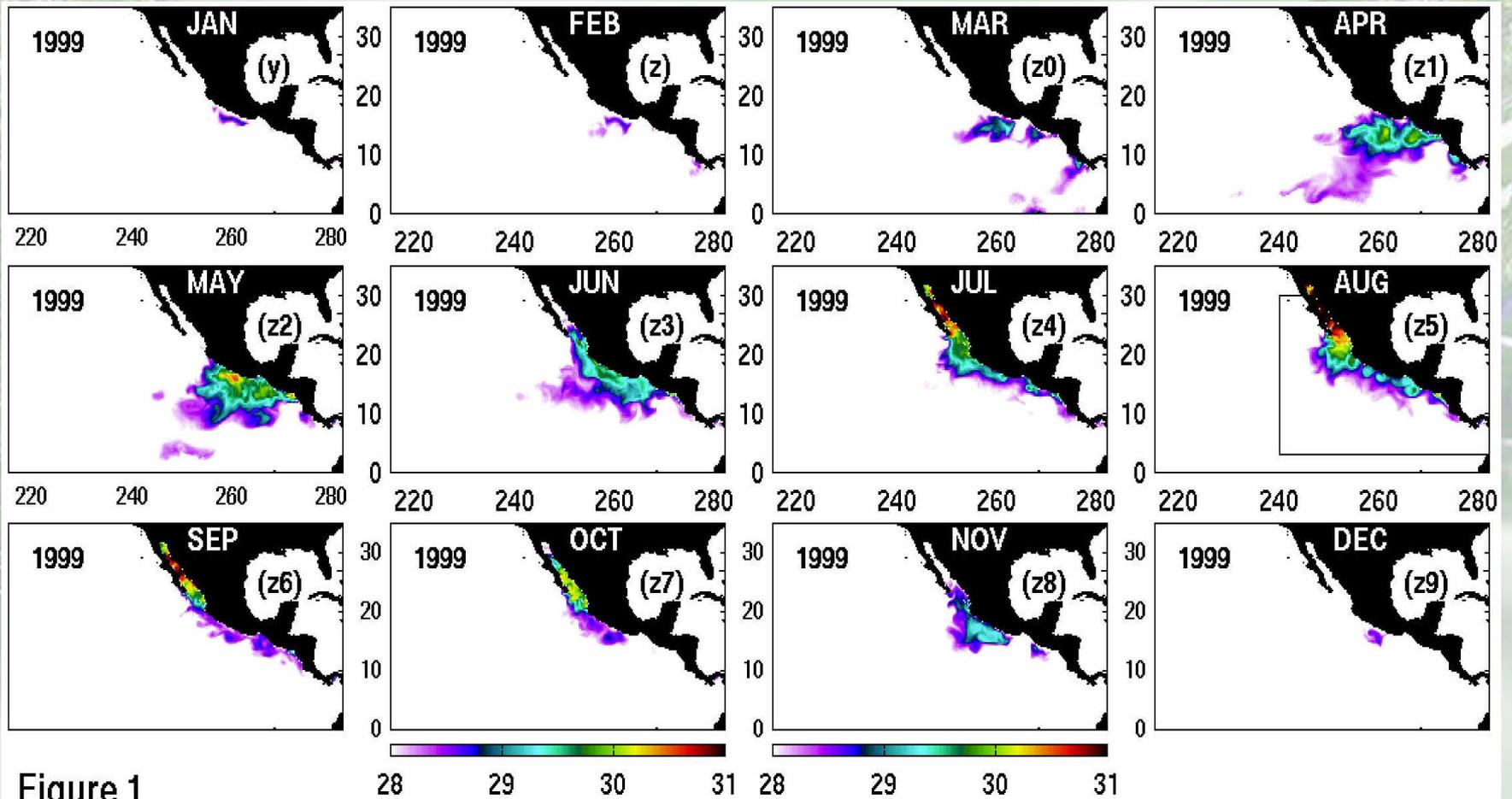
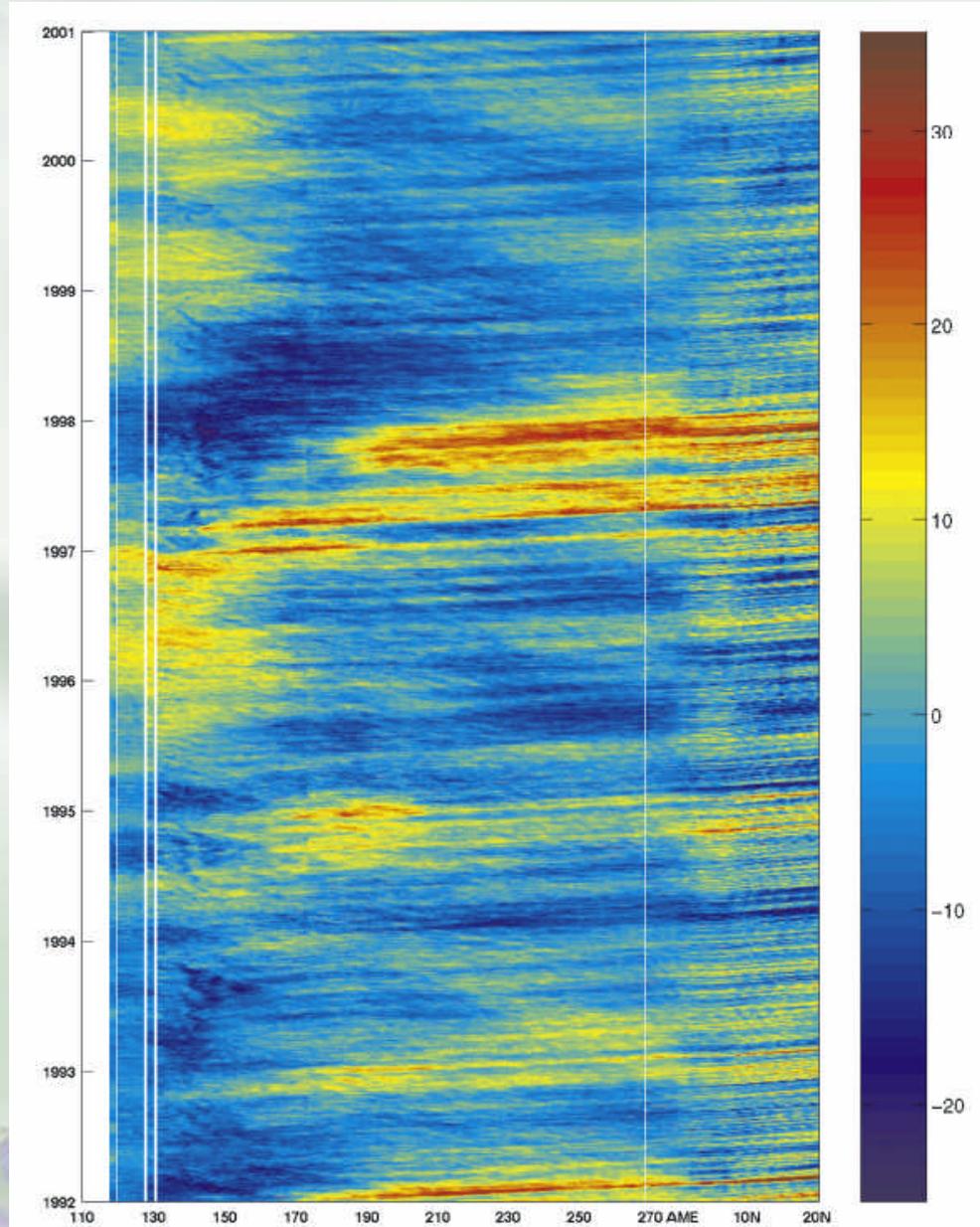


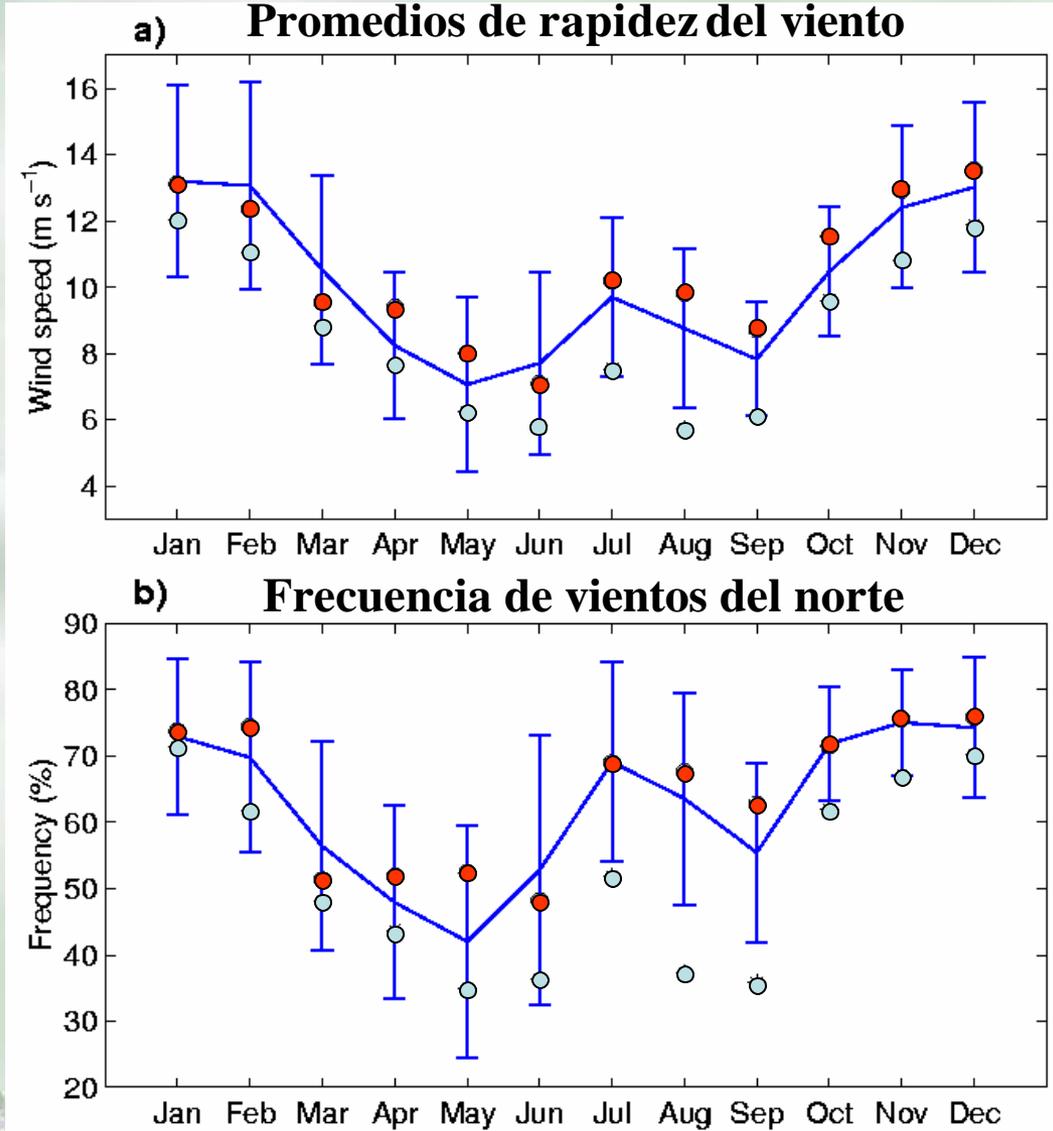
Figure 1



Anomalía del nivel del mar del NLOM



Climatología de los vientos en el Istmo de Tehuantepec



● El Niño: 65, 69, 72, 76, 82, 86, 87 y 91

○ La Niña: 64, 67, 70, 71, 73, 75 y 88