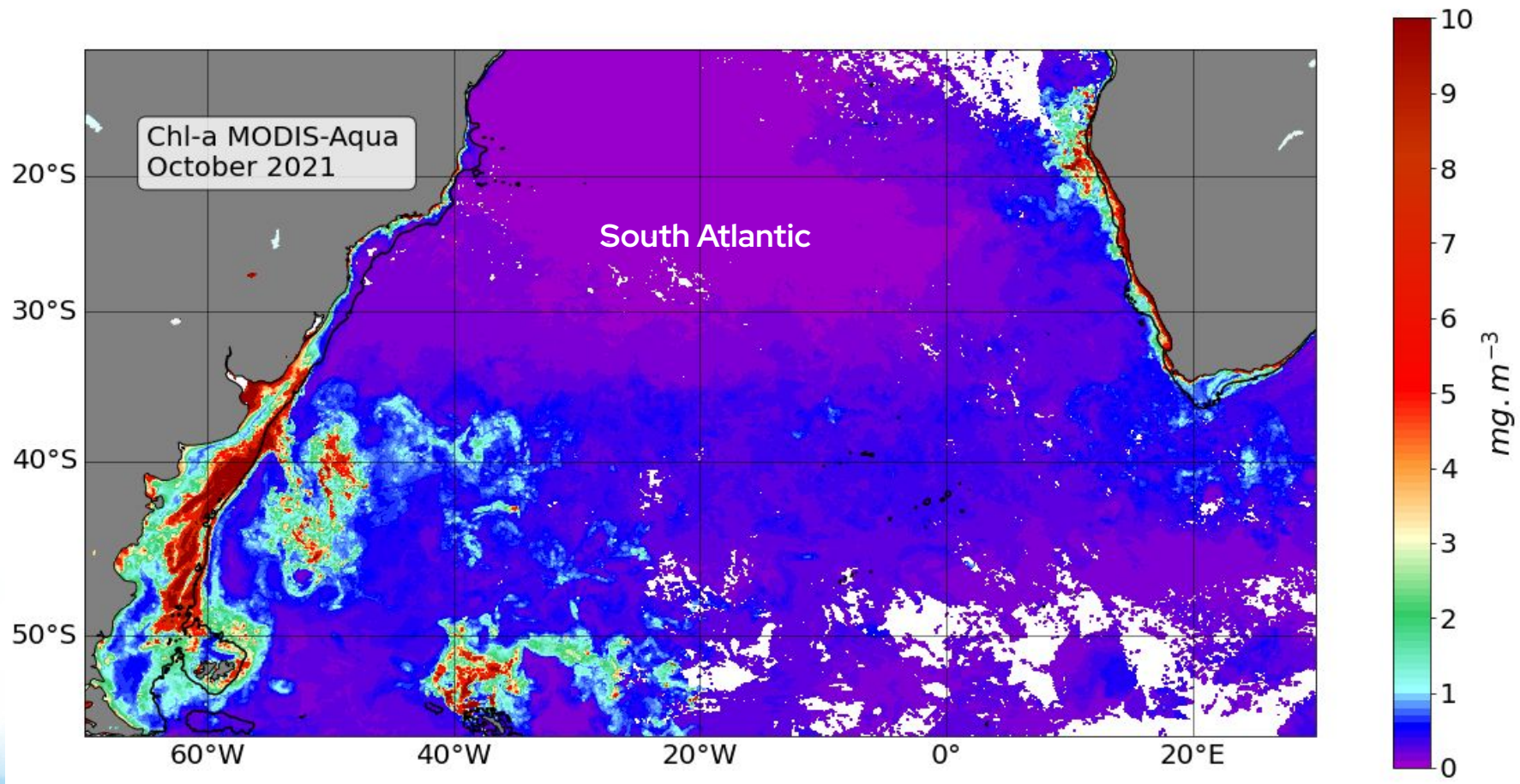
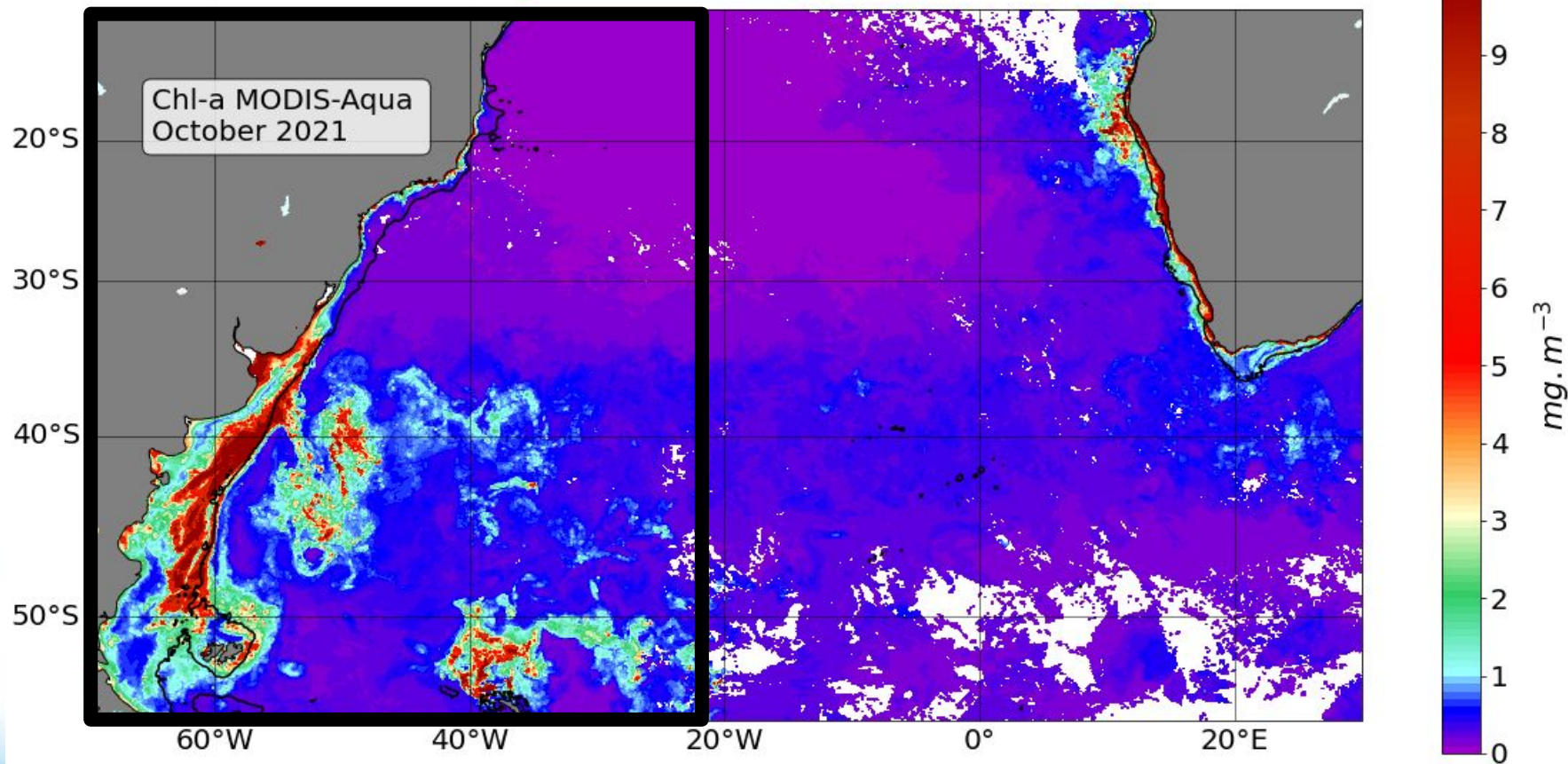


# Cross-shelf exchange in the Southwestern Atlantic shelf

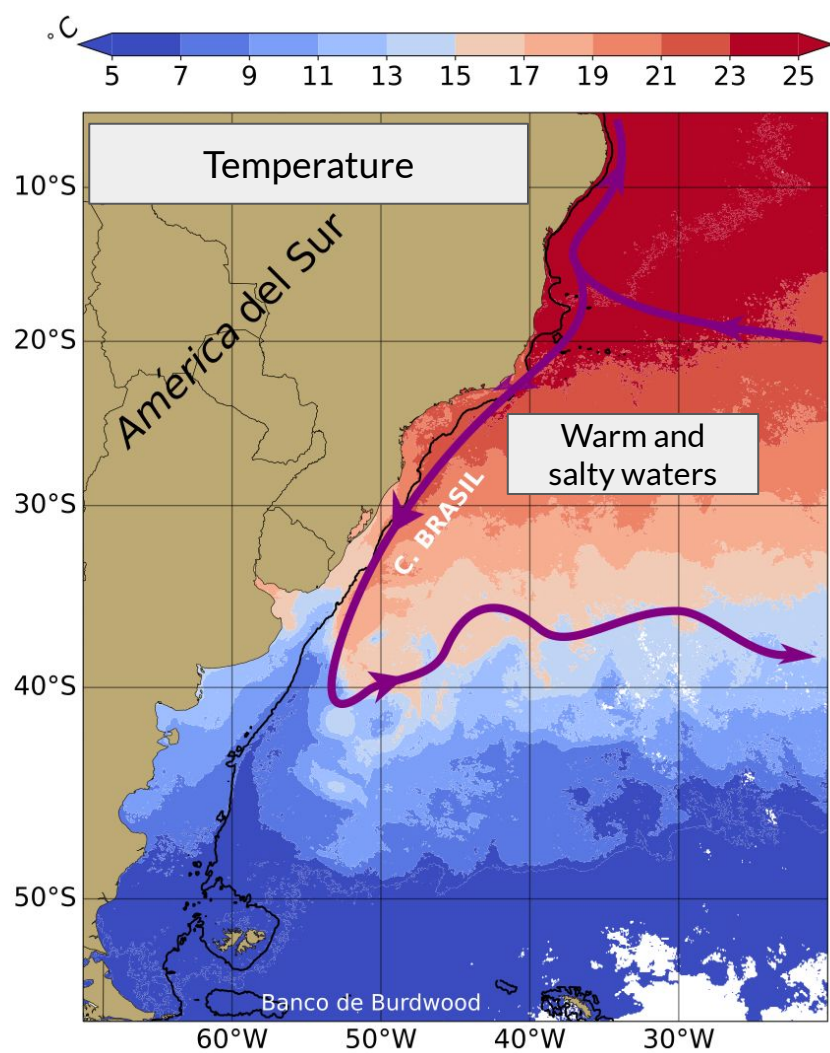
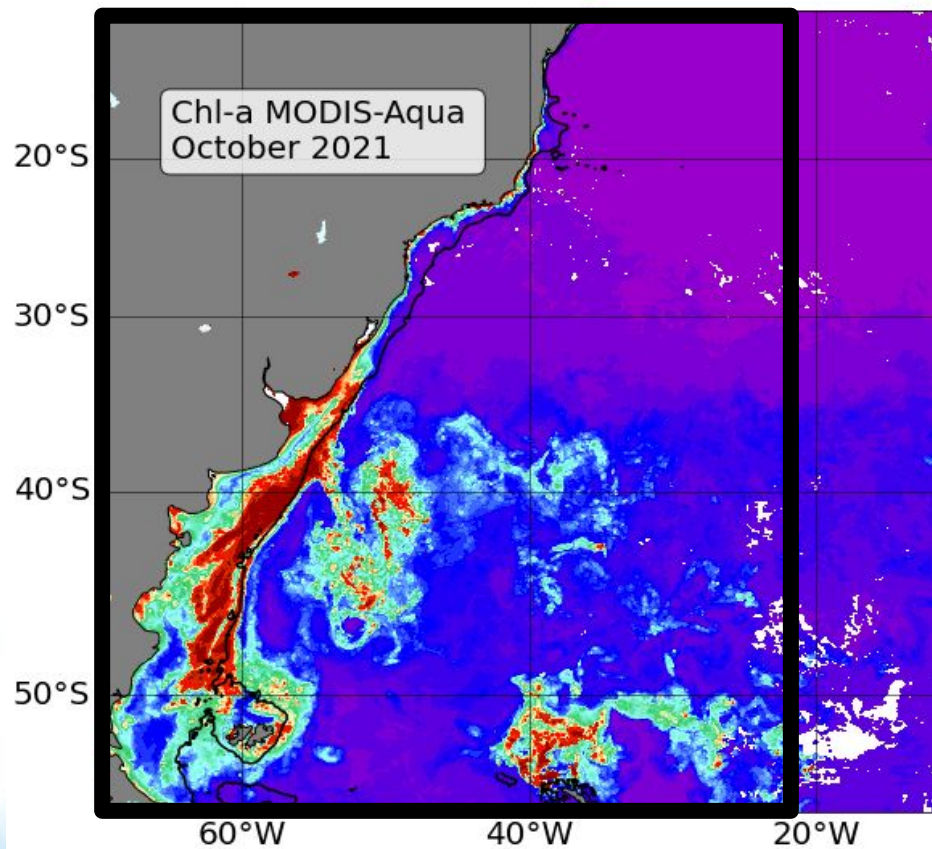
Giuliana Berden  
gberden@uvic.ca

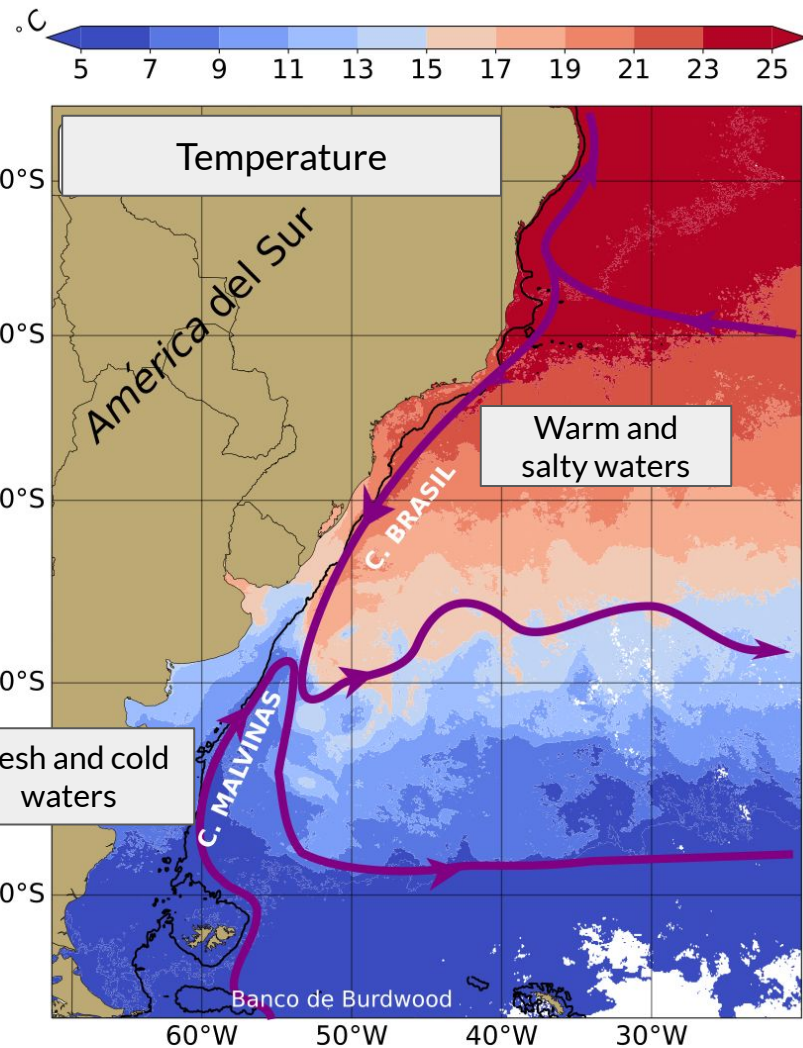
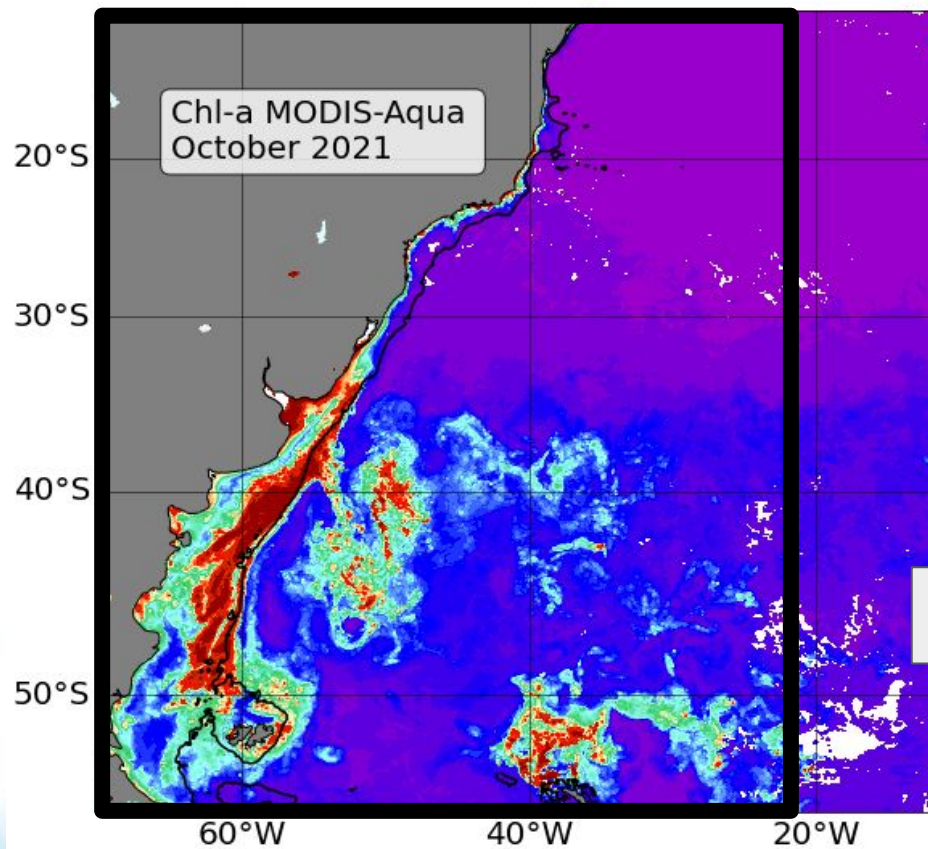


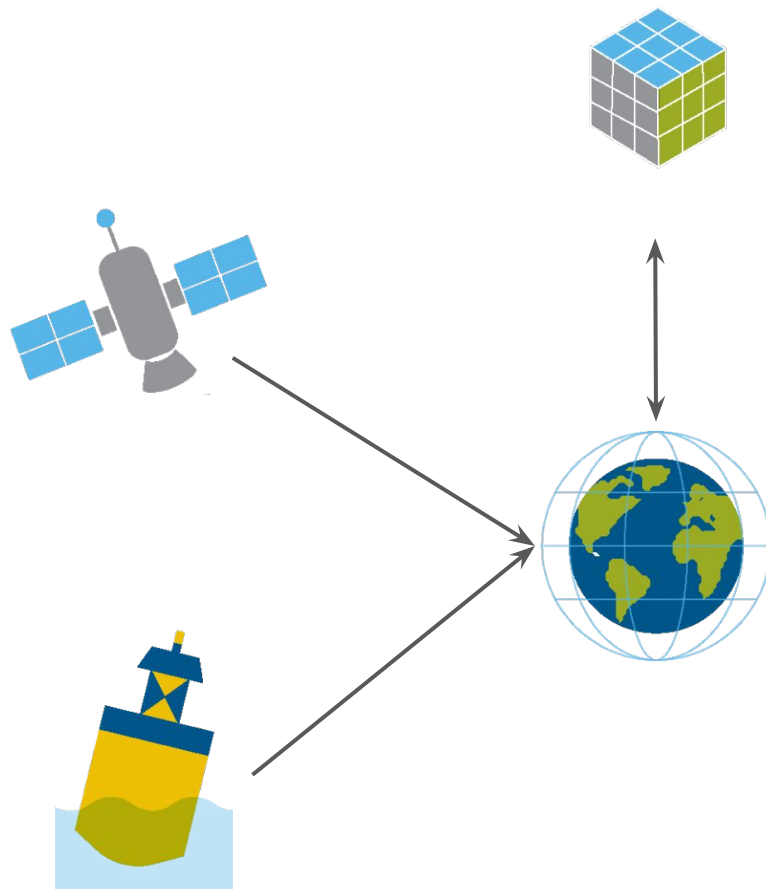
## Southwestern Atlantic shelf



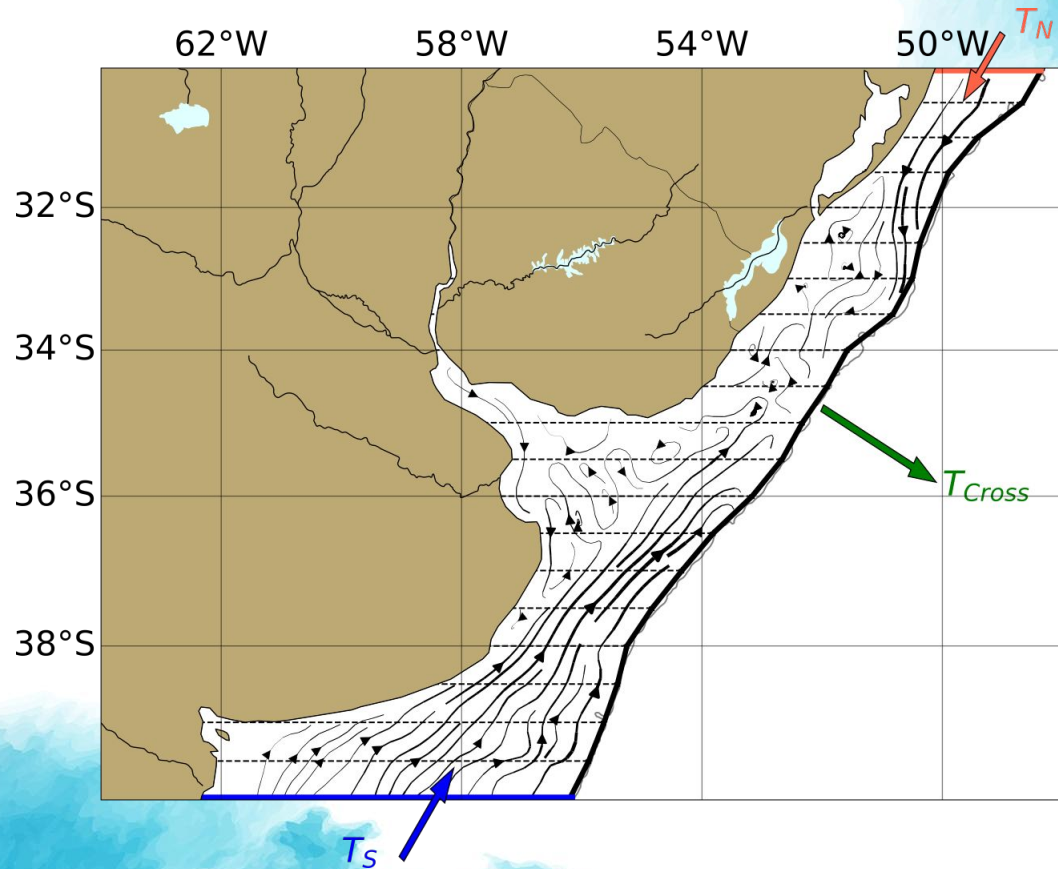












$$T_{\text{cross}} = T_N + T_S$$

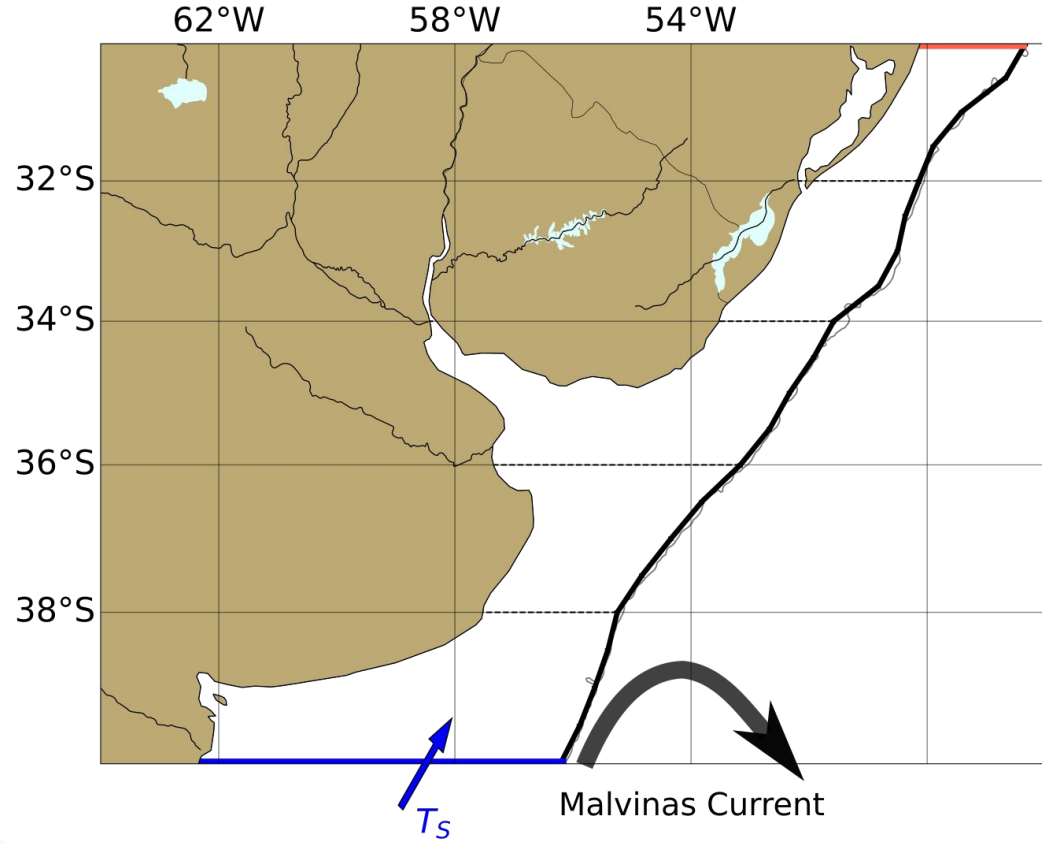
$T_{\text{cross}} > 0 \rightarrow \text{To open water}$

Possible drivers

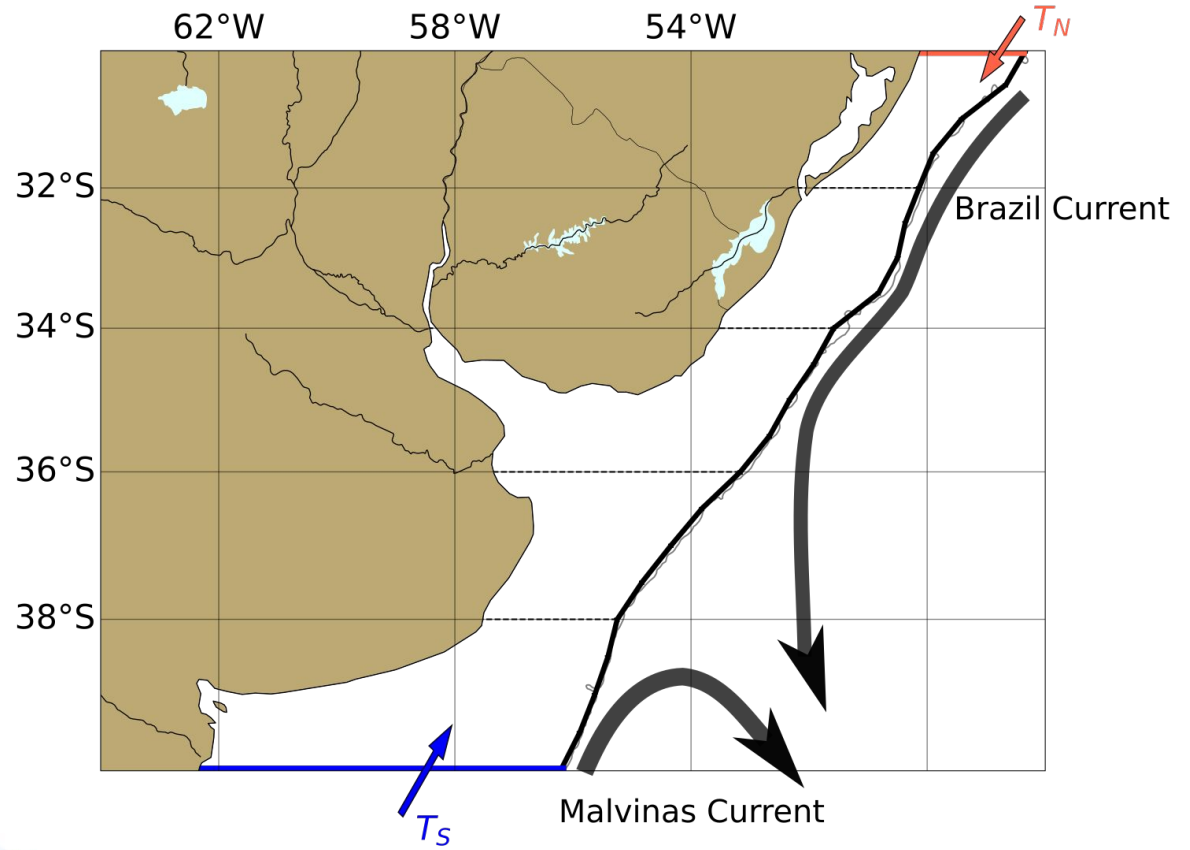




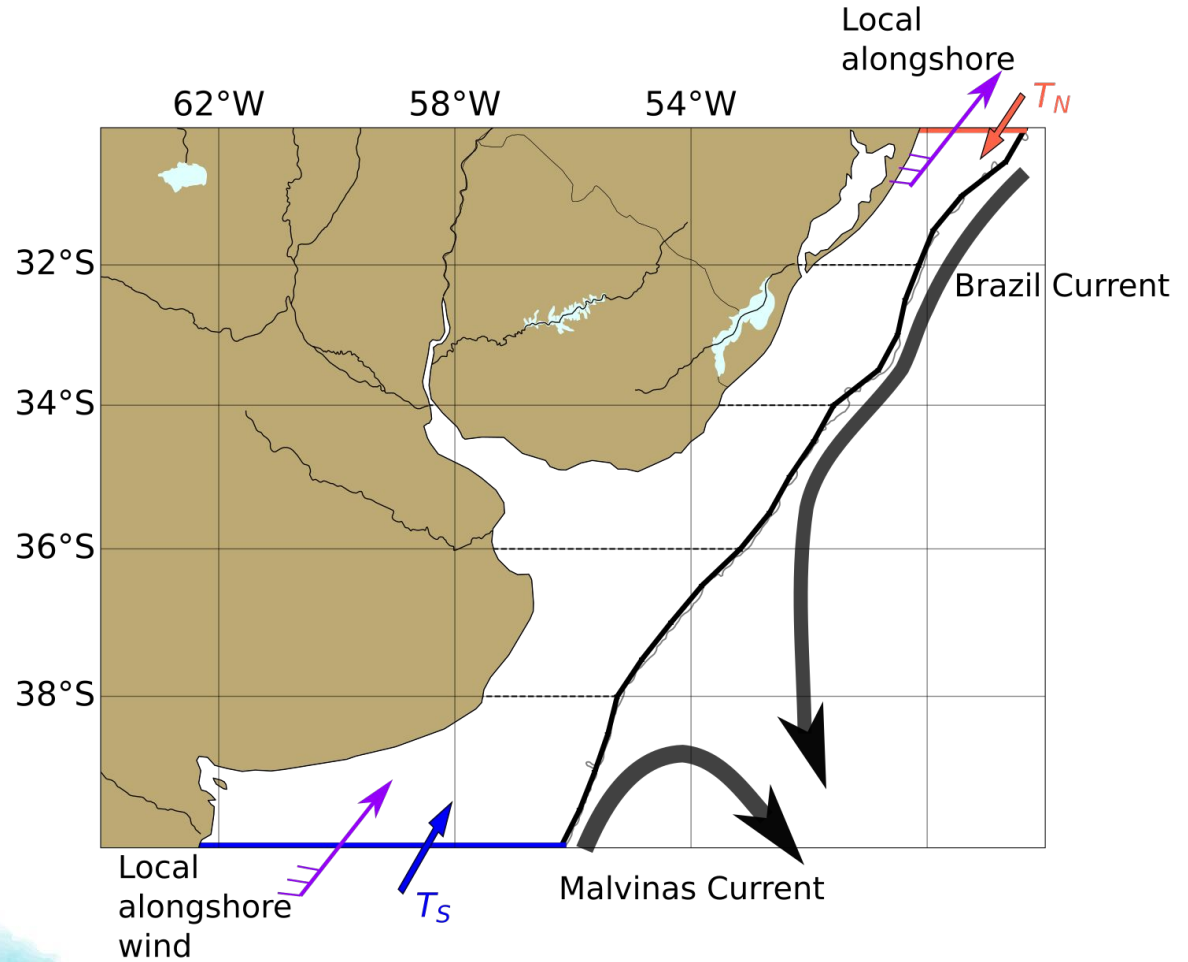
Possible drivers



Possible drivers

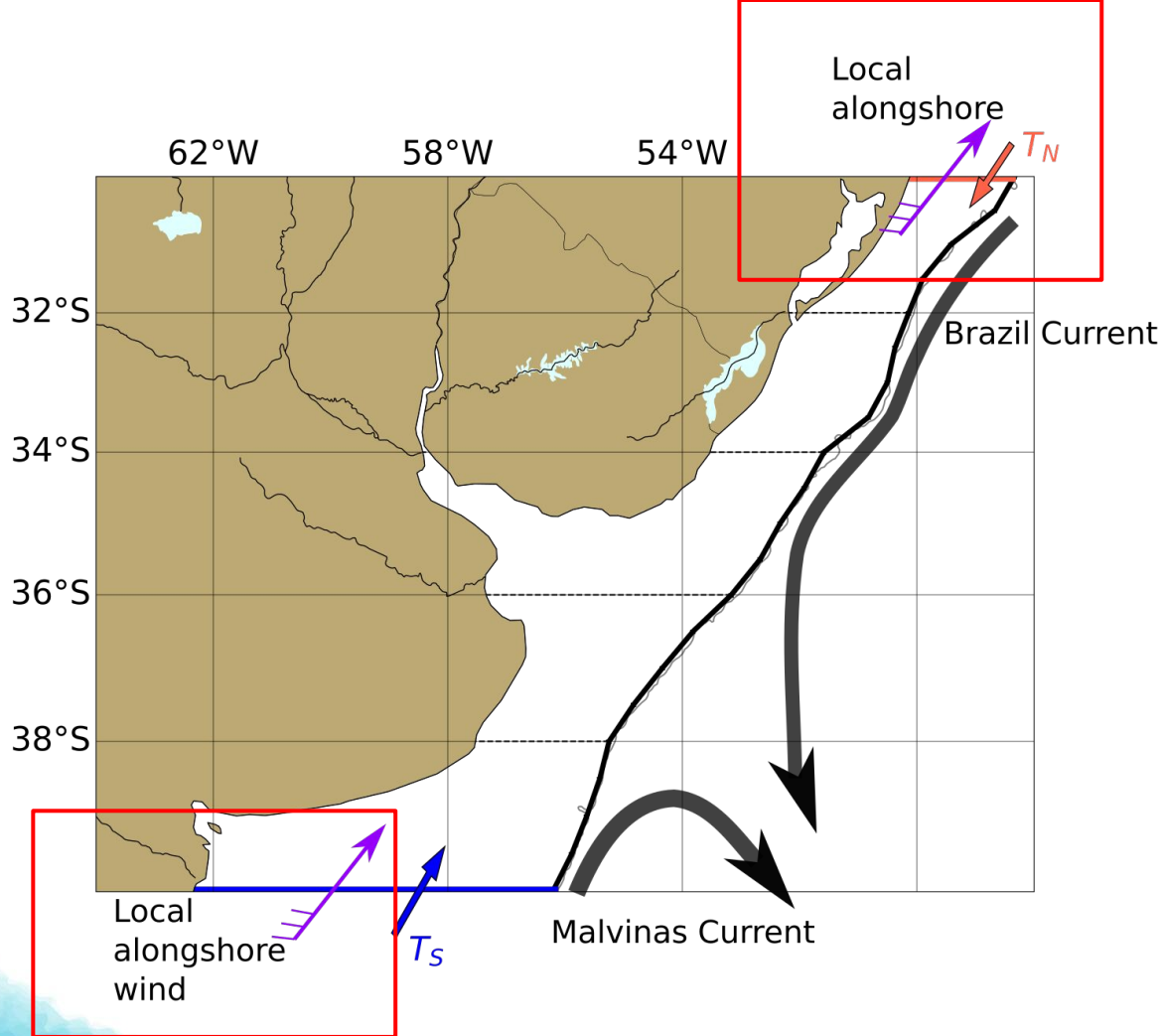


## Possible drivers

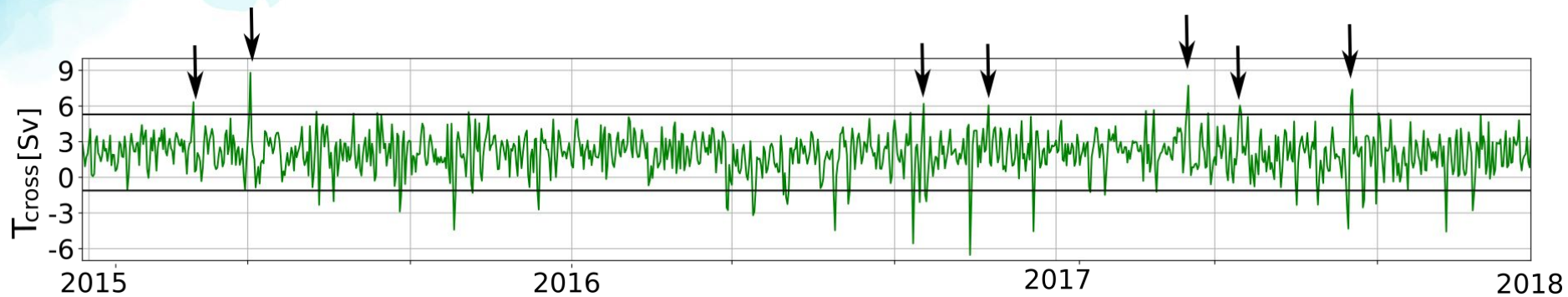
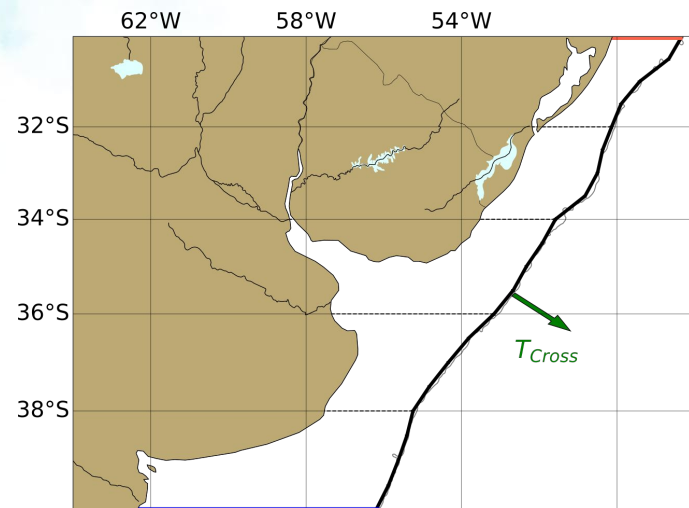


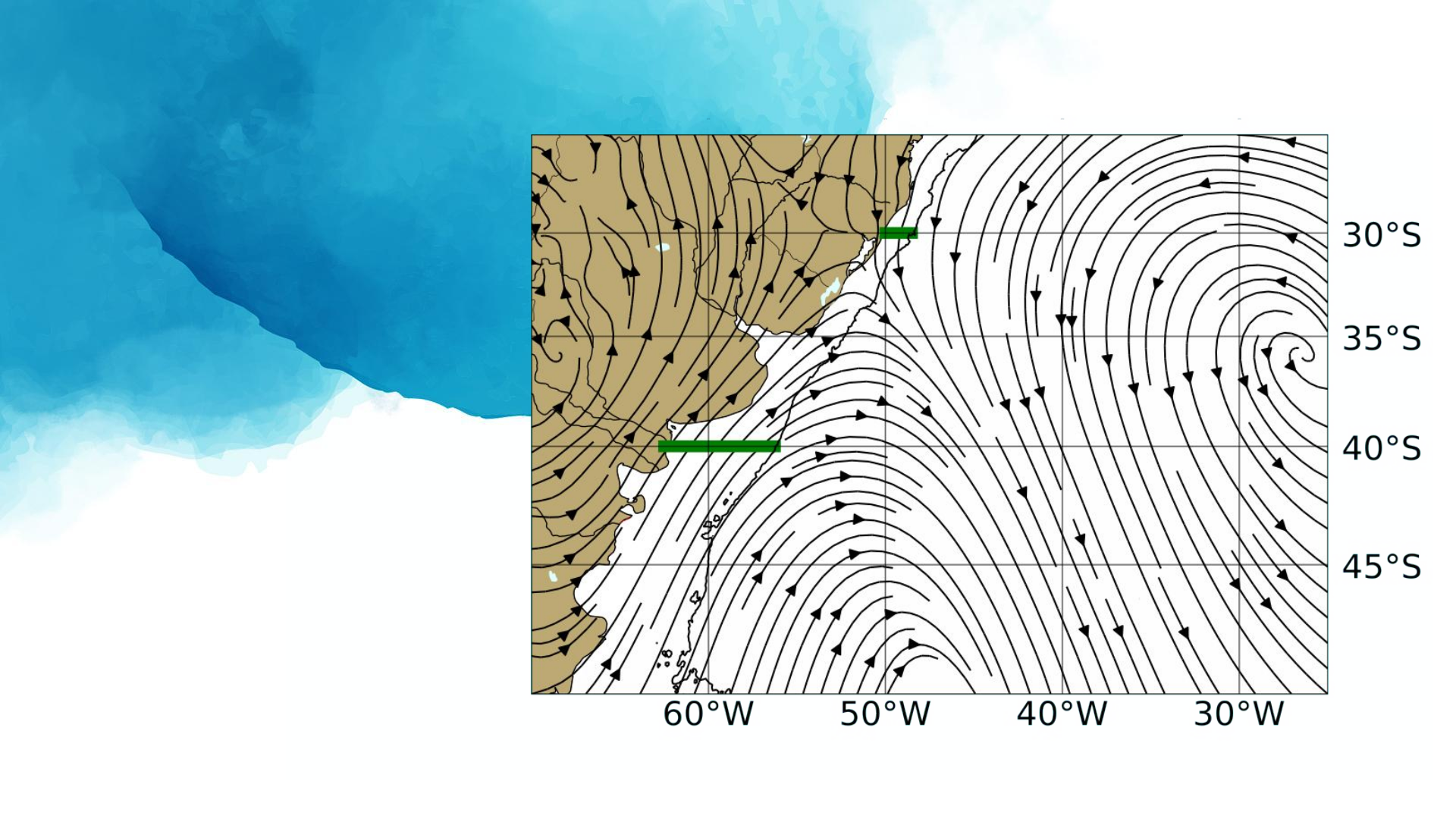


## Possible drivers

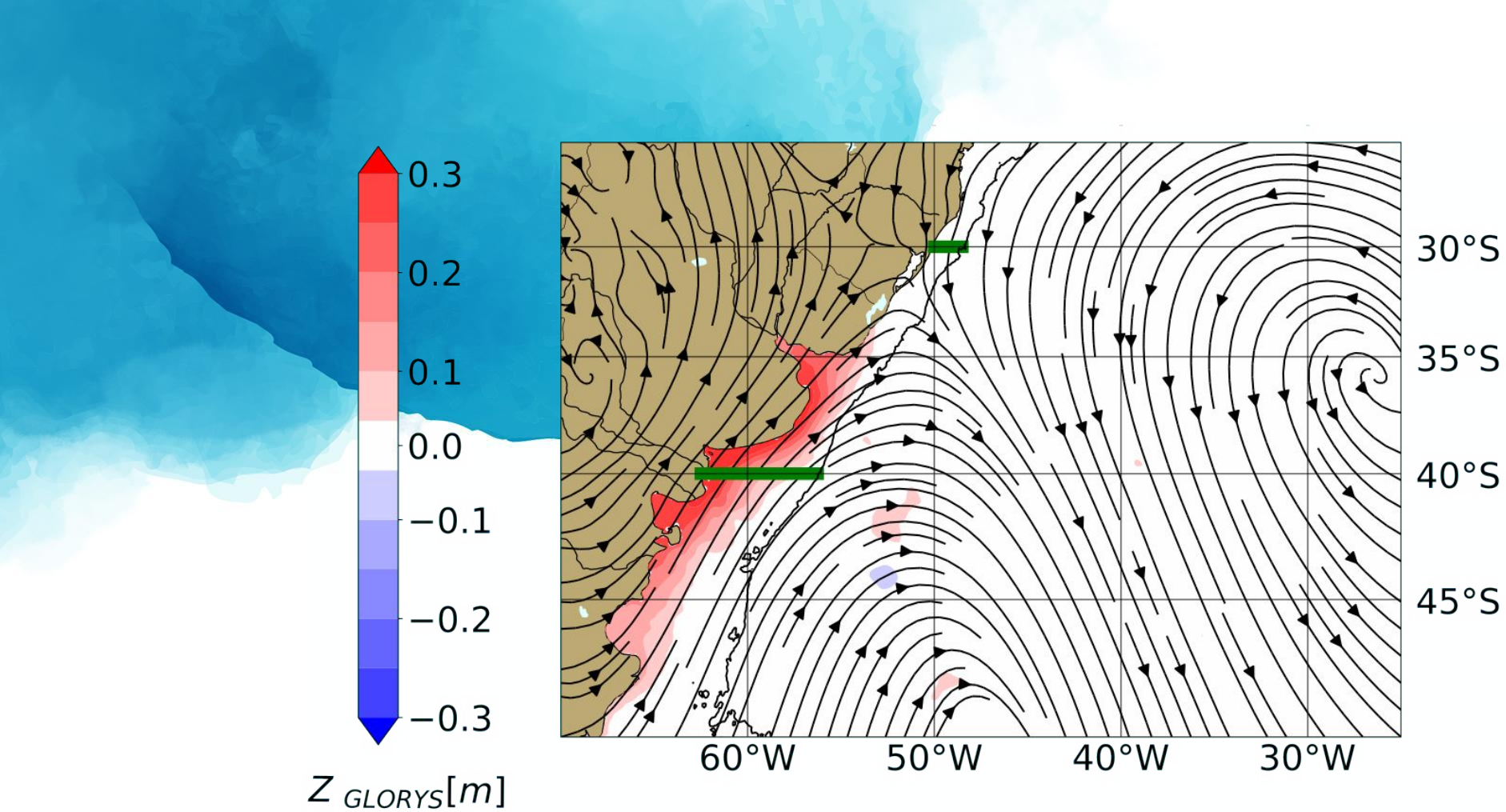


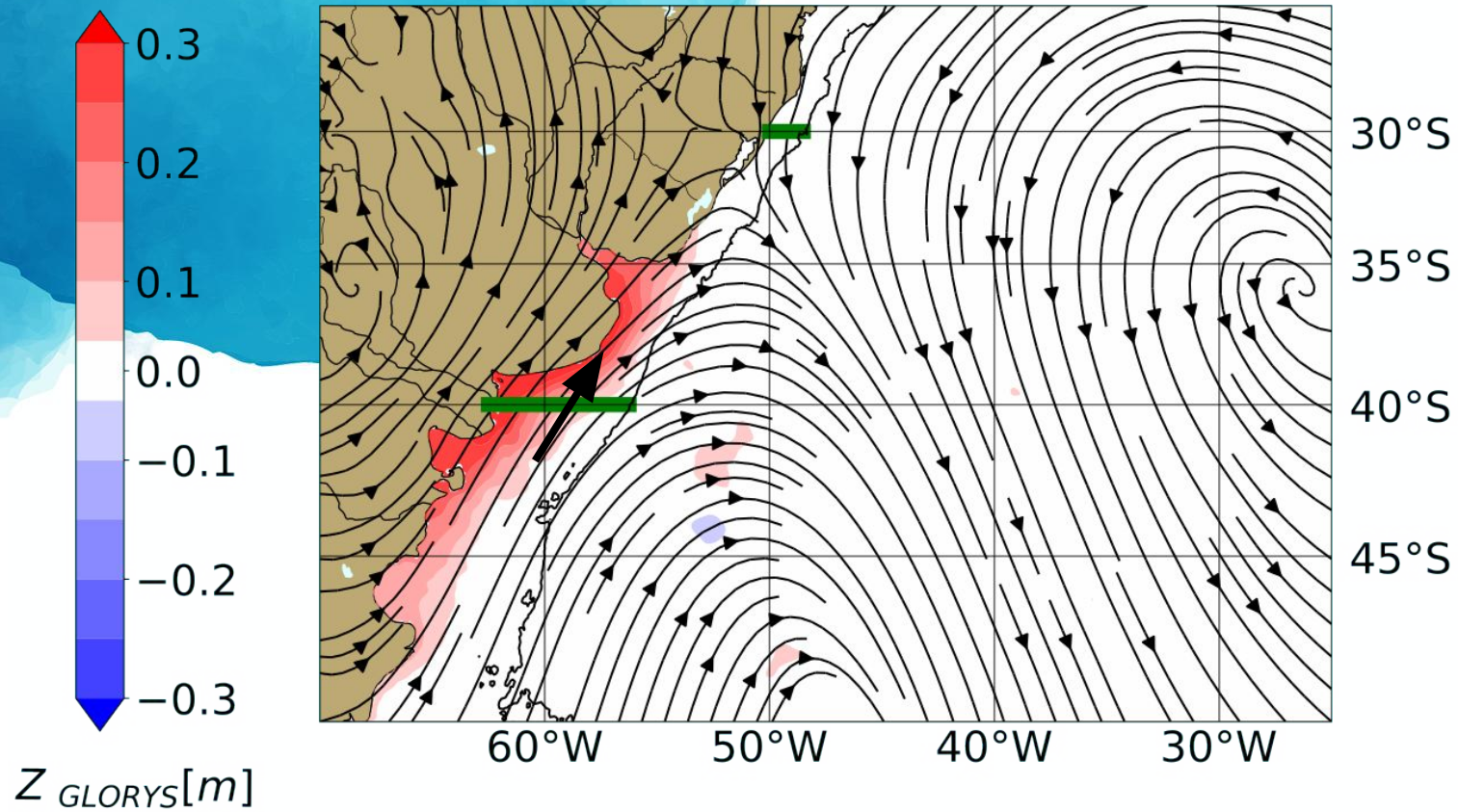
Extreme events



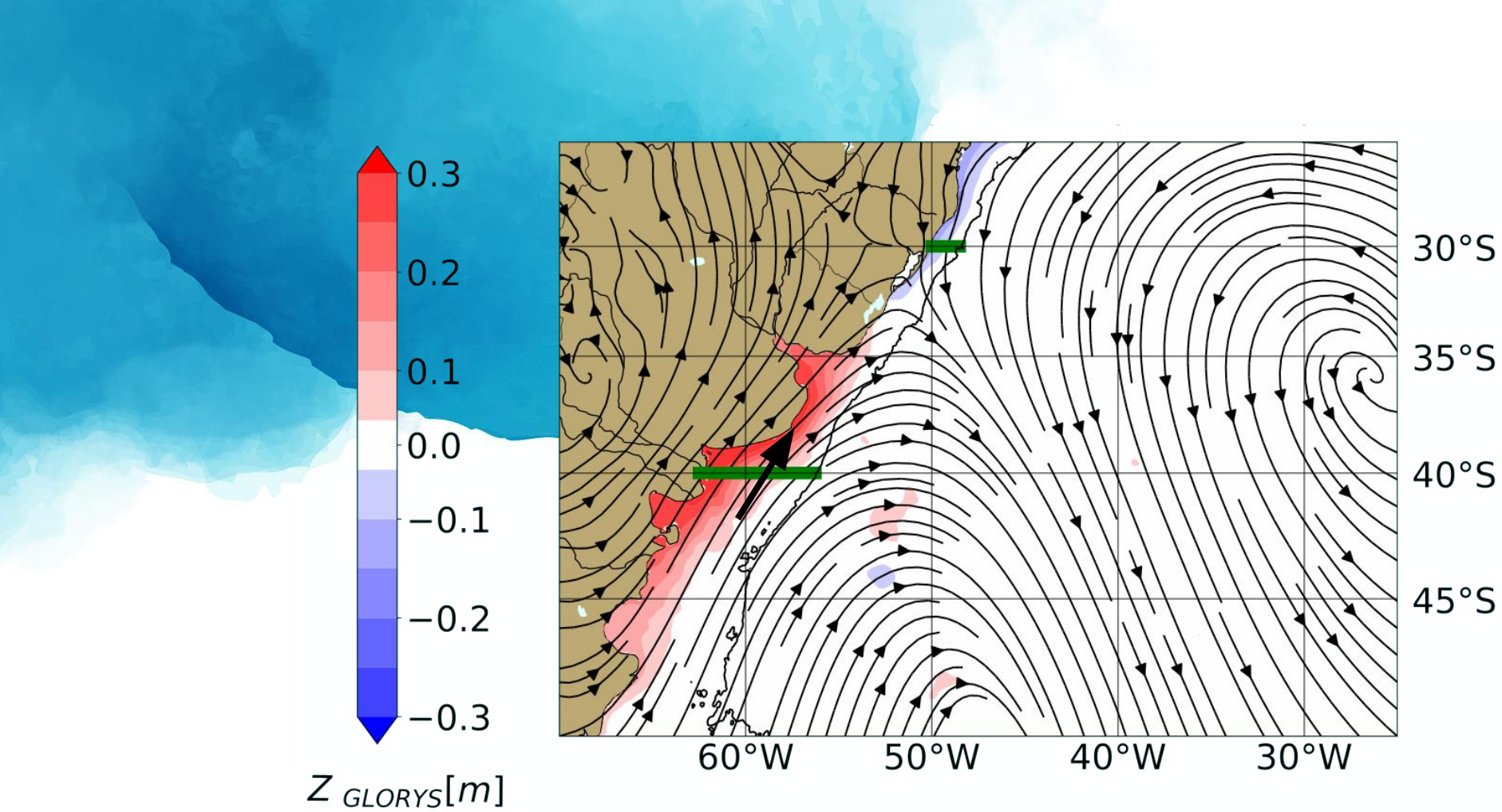




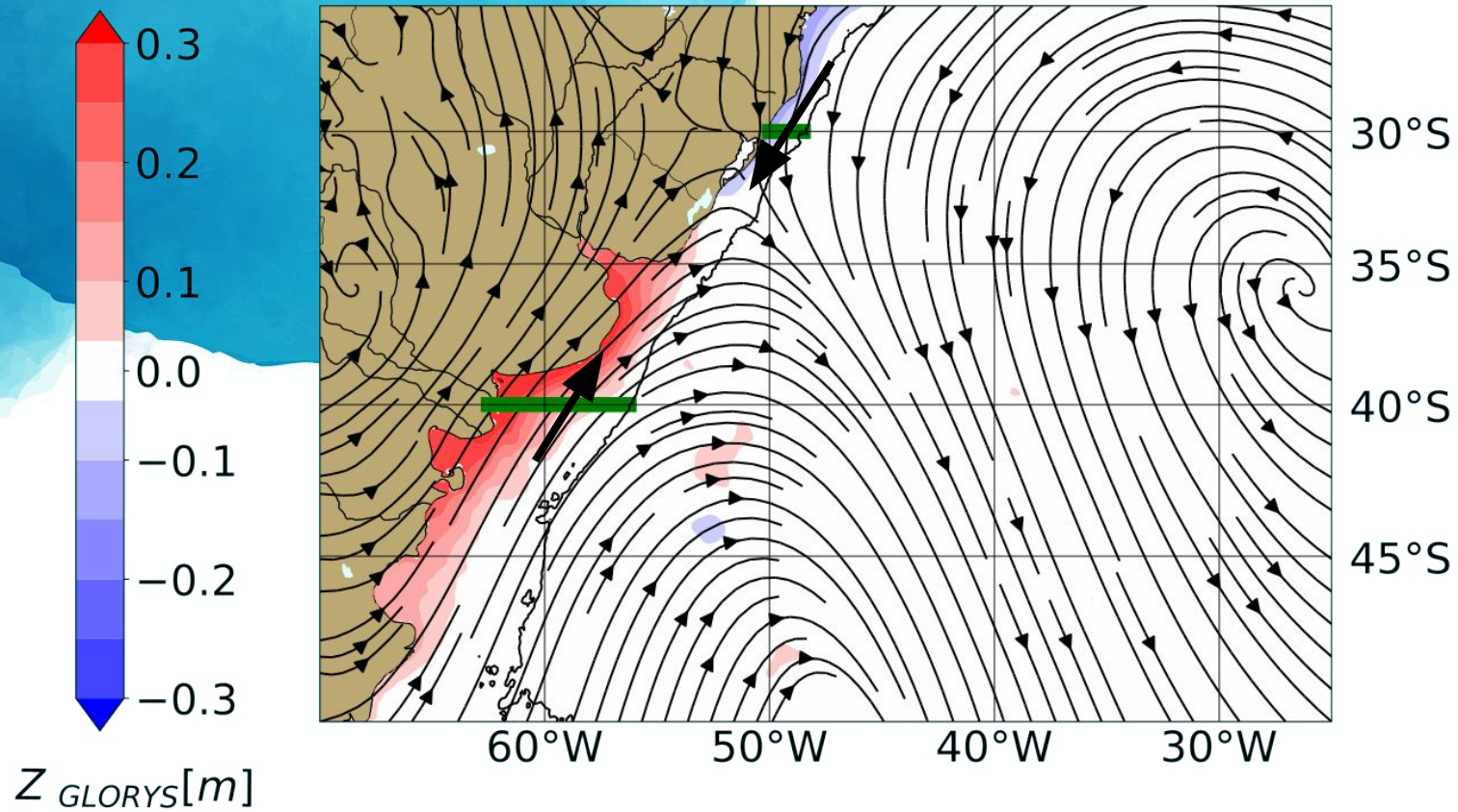


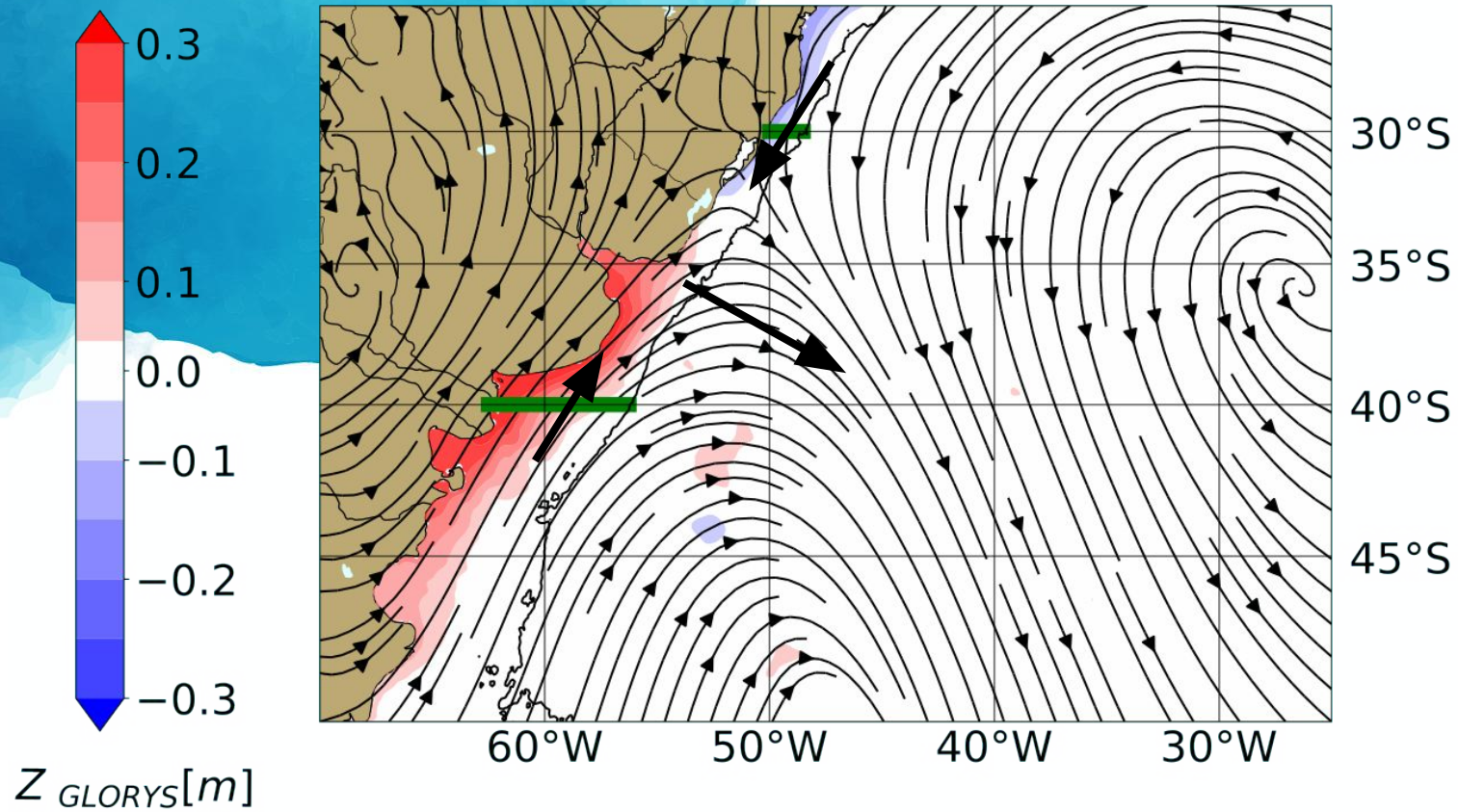






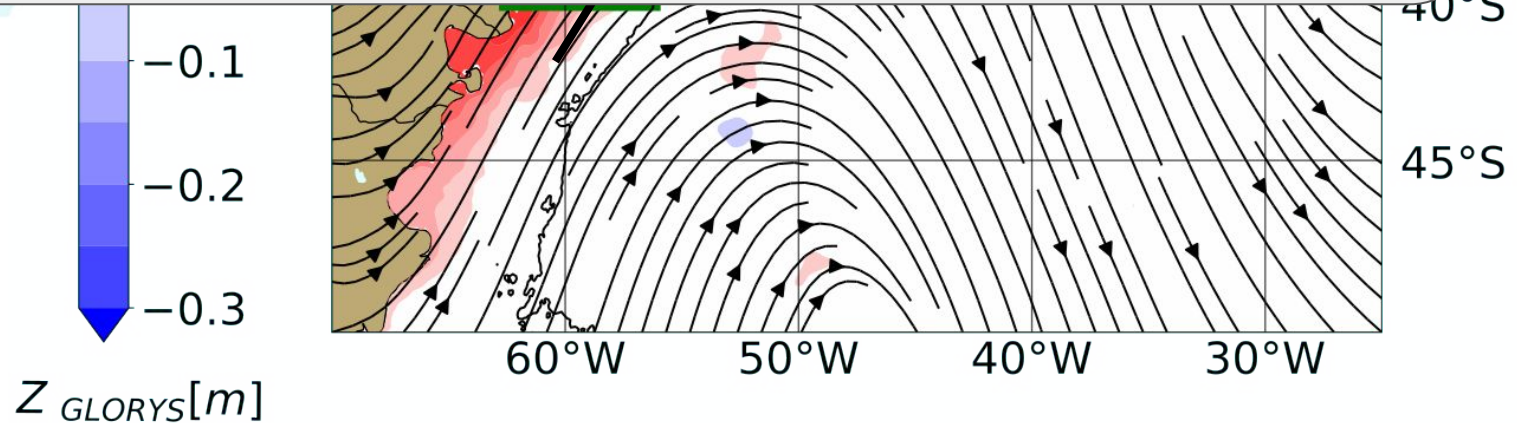






## Conclusions:

- The local wind is the main driver of the export of water from the shelf to the open ocean





# Thank you

