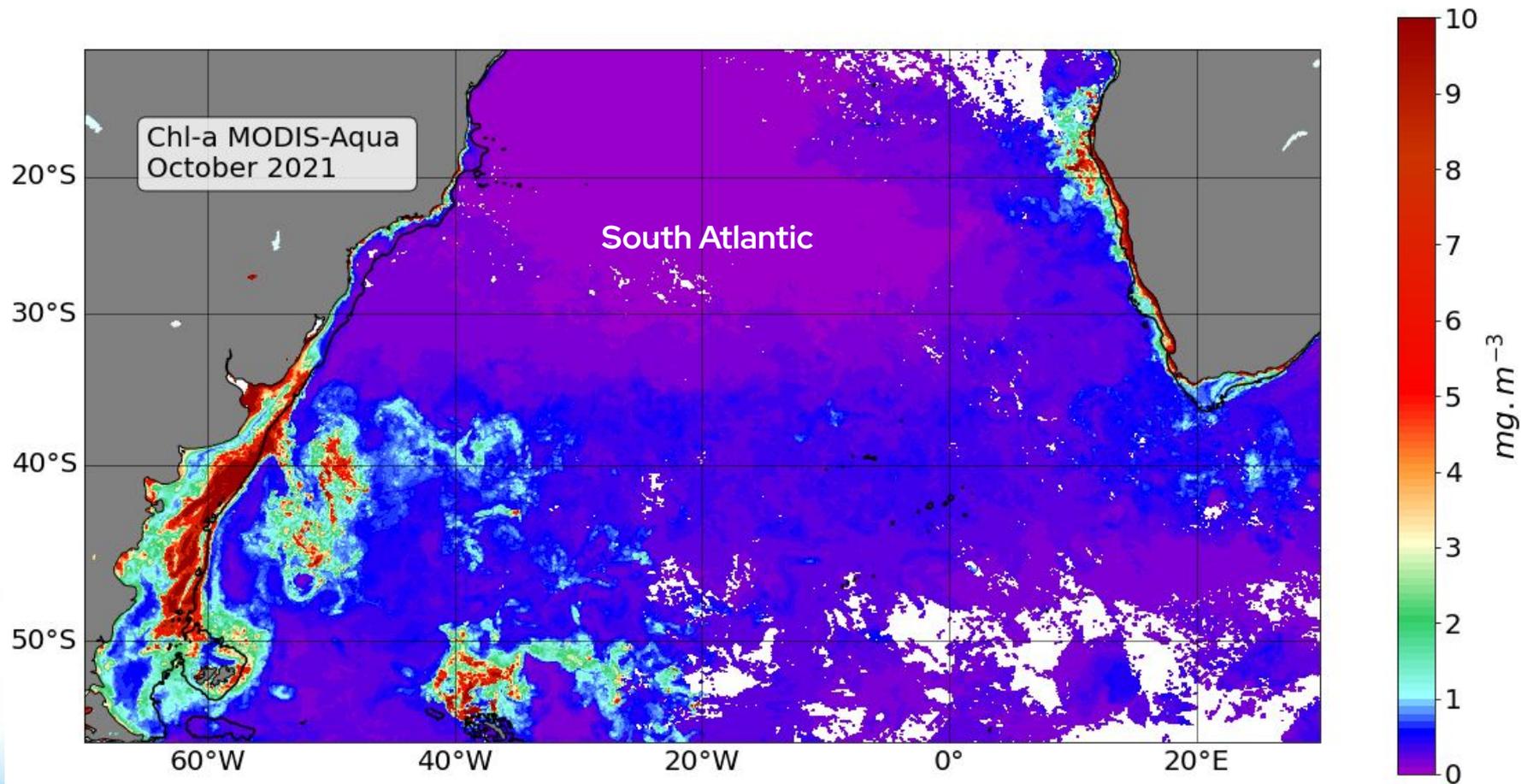
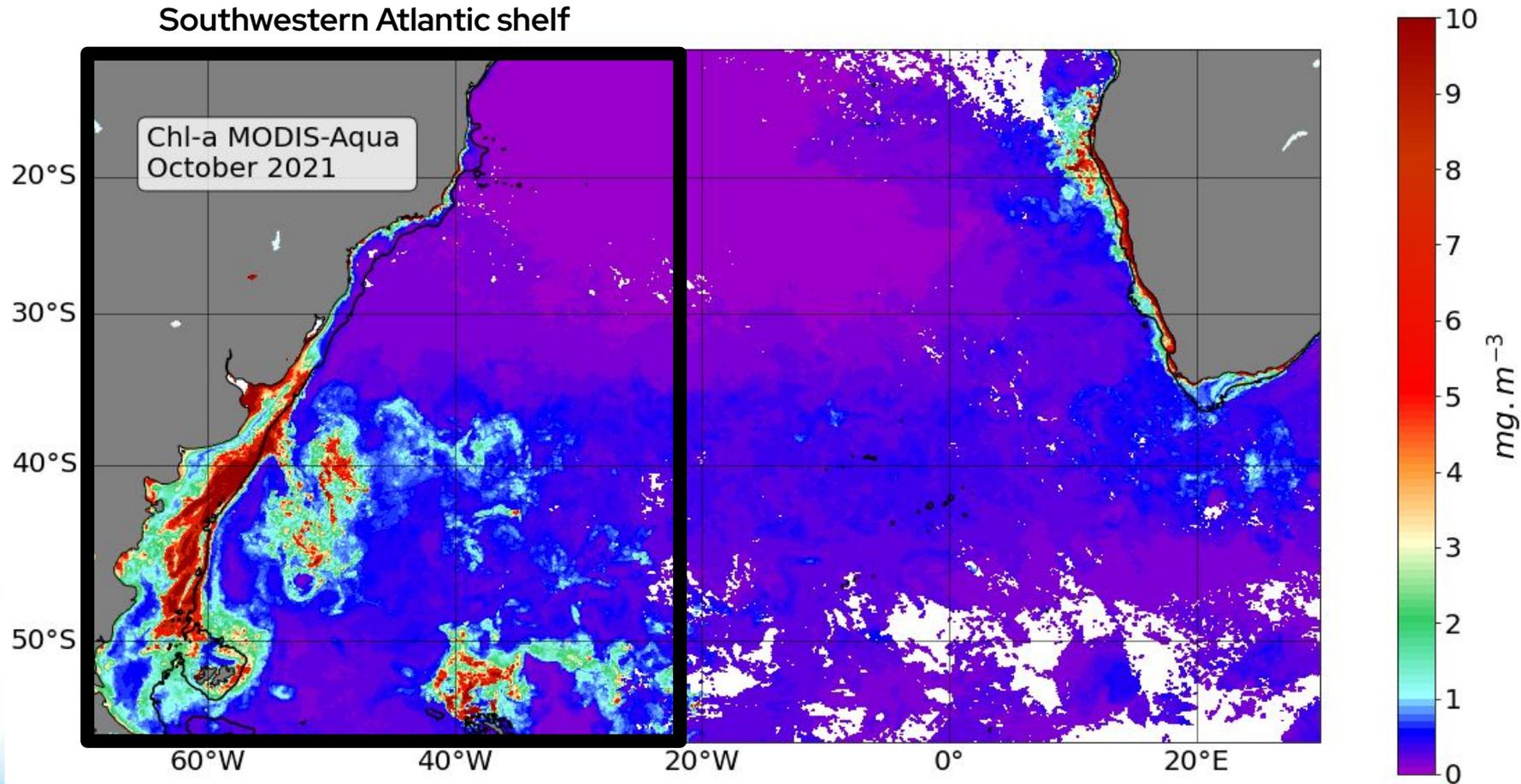


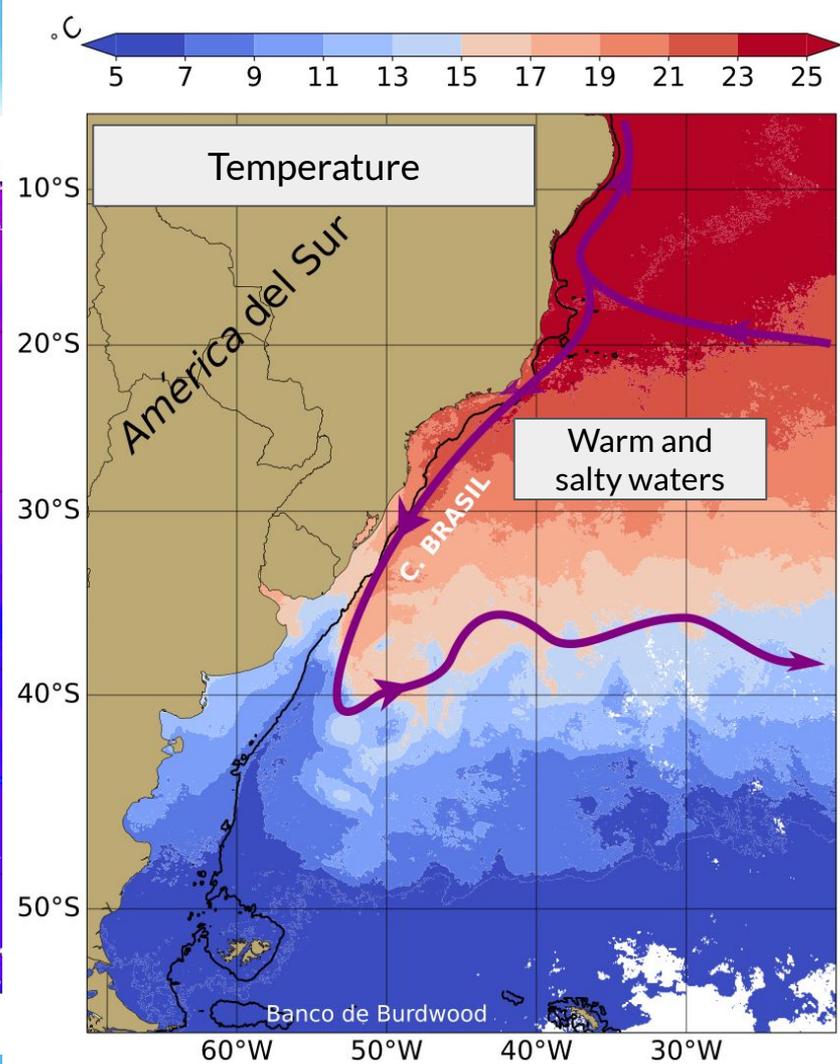
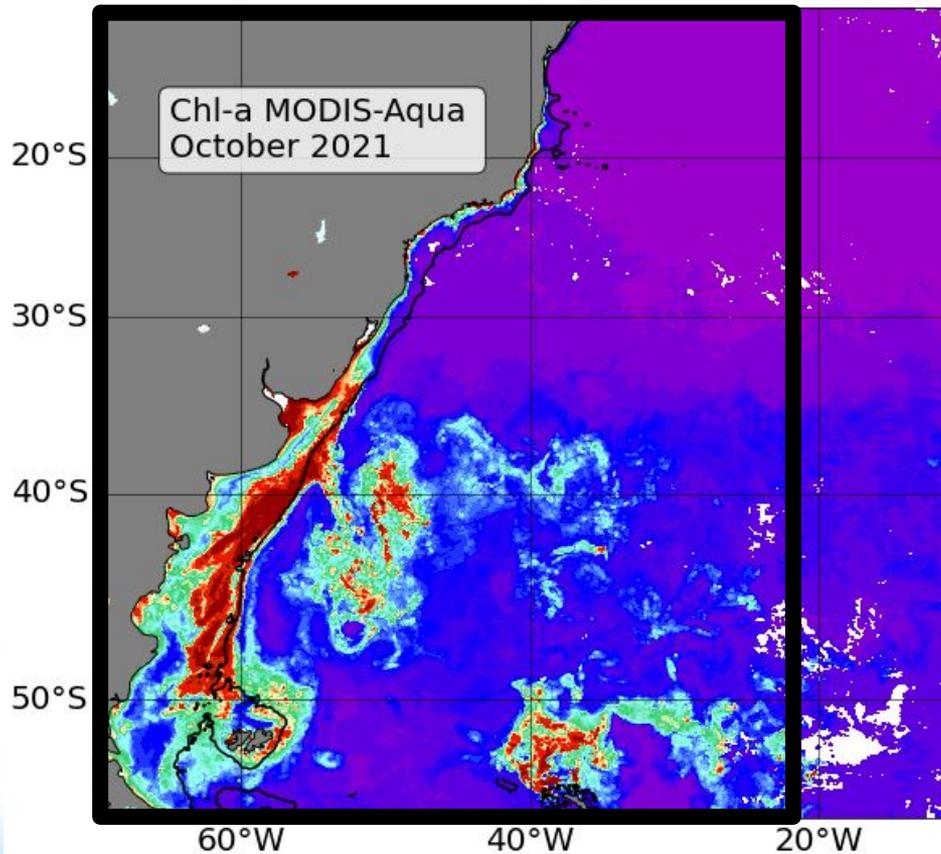
Cross-shelf exchange in the Southwestern Atlantic shelf

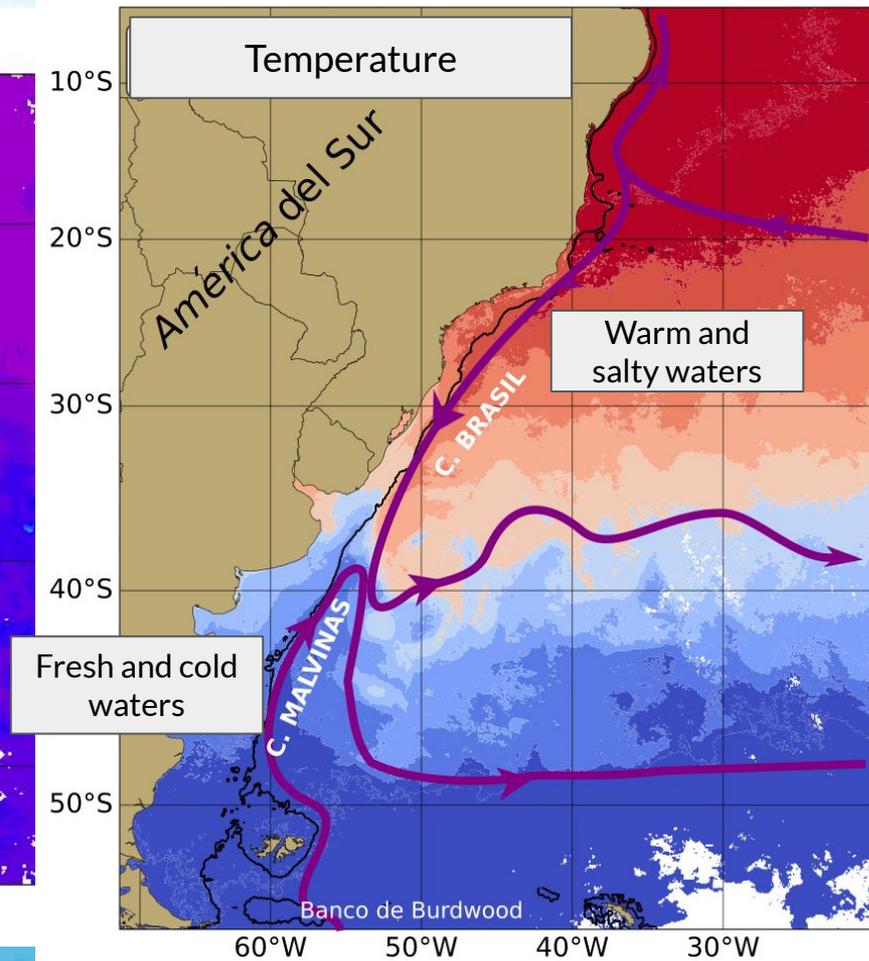
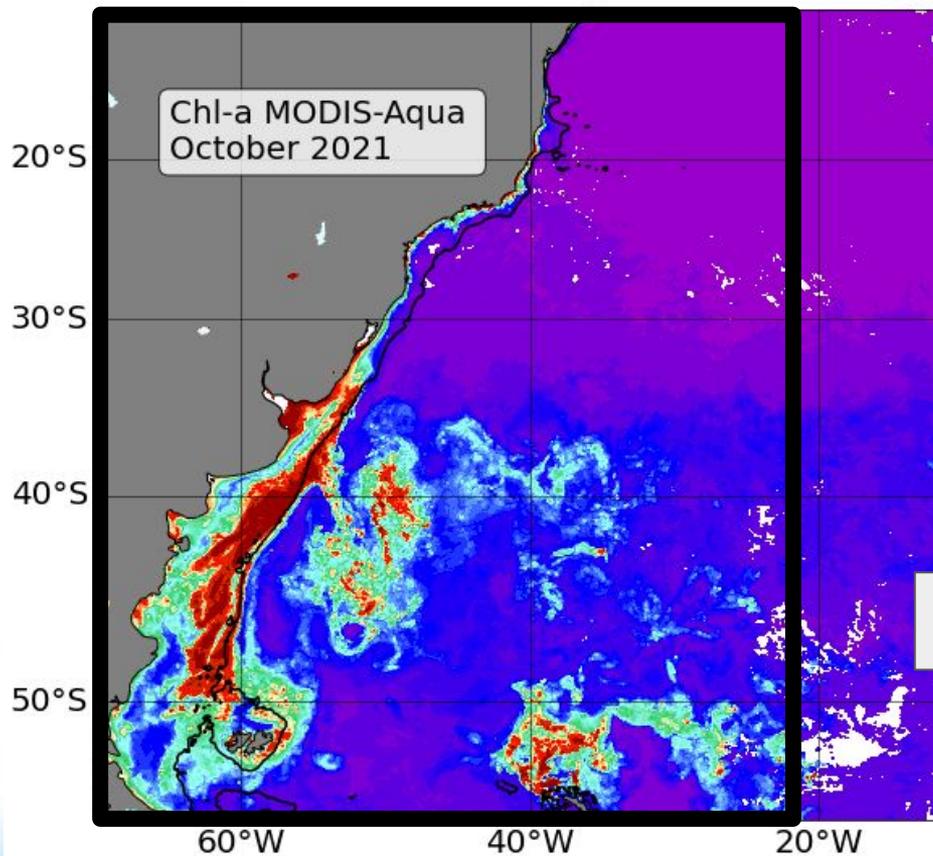
Giuliana Berden
gberden@uvic.ca



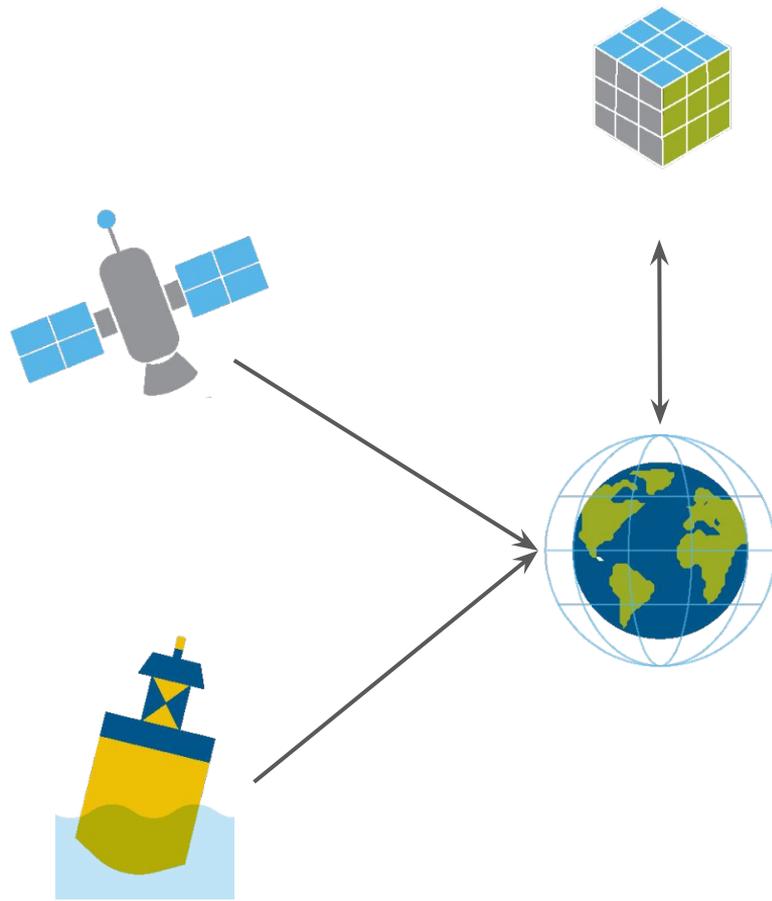
Southwestern Atlantic shelf

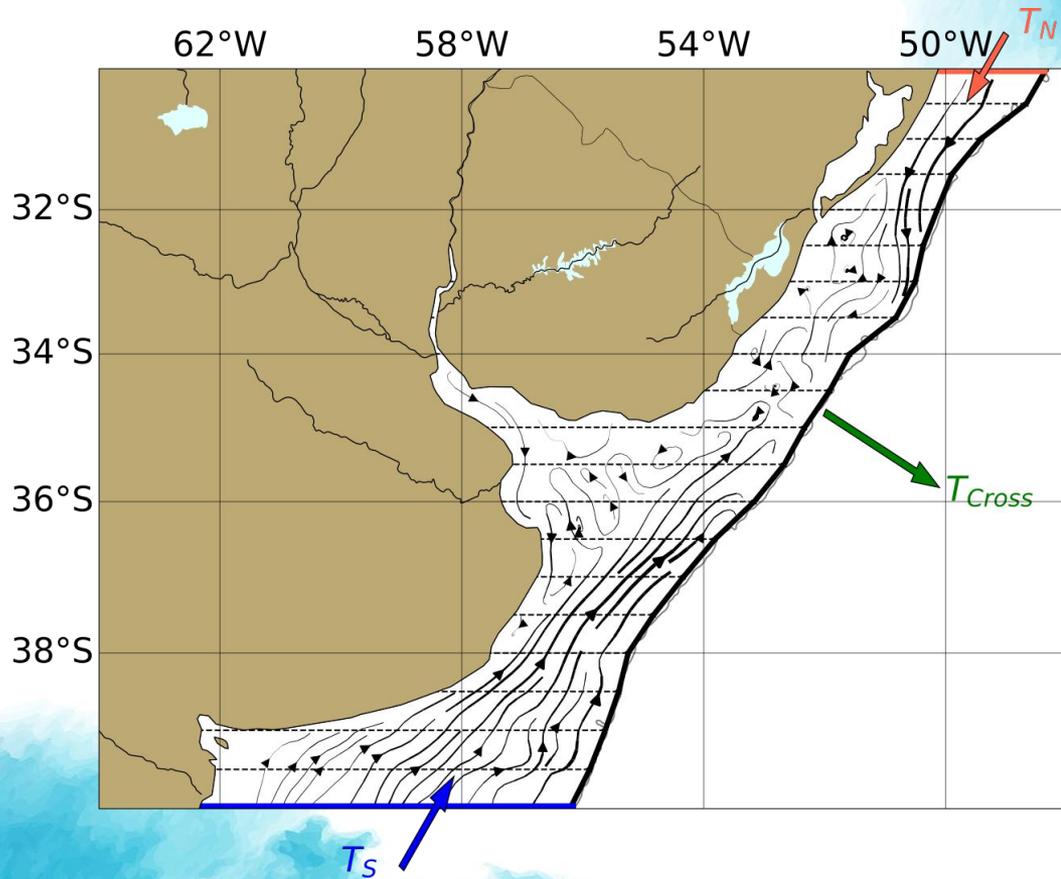






Reanalysis
GLORYS





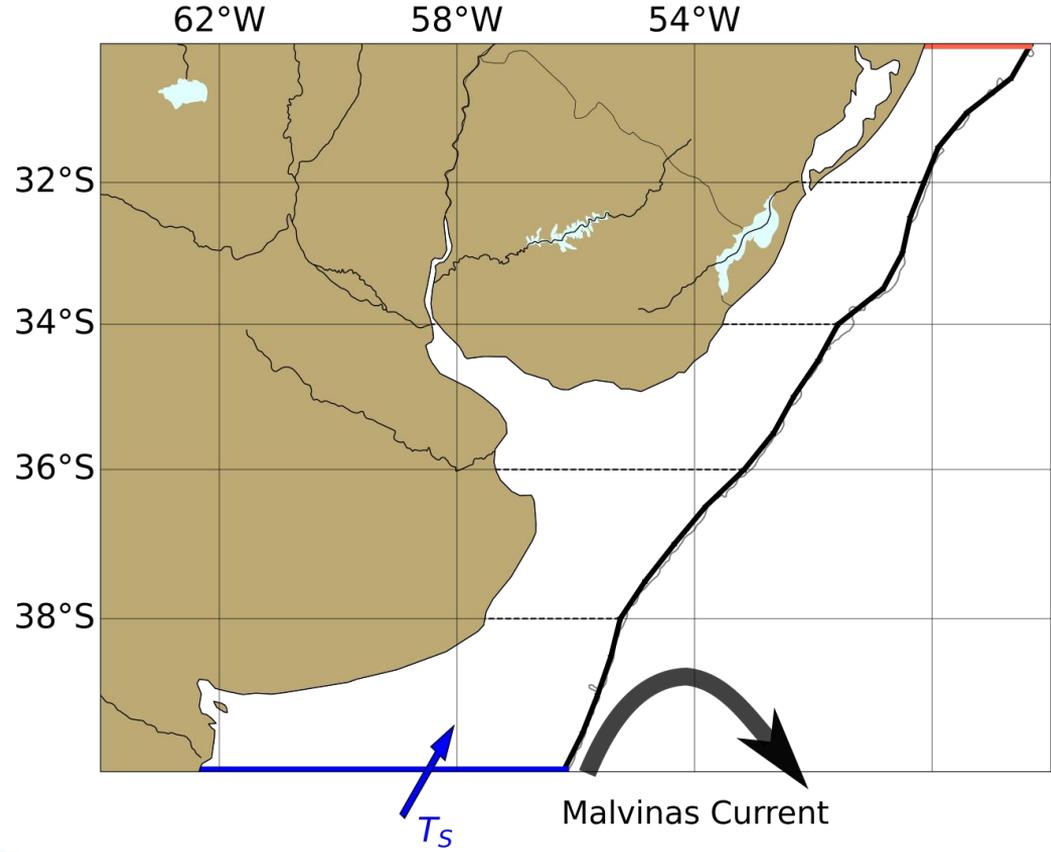
$$T_{cross} = T_N + T_S$$

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

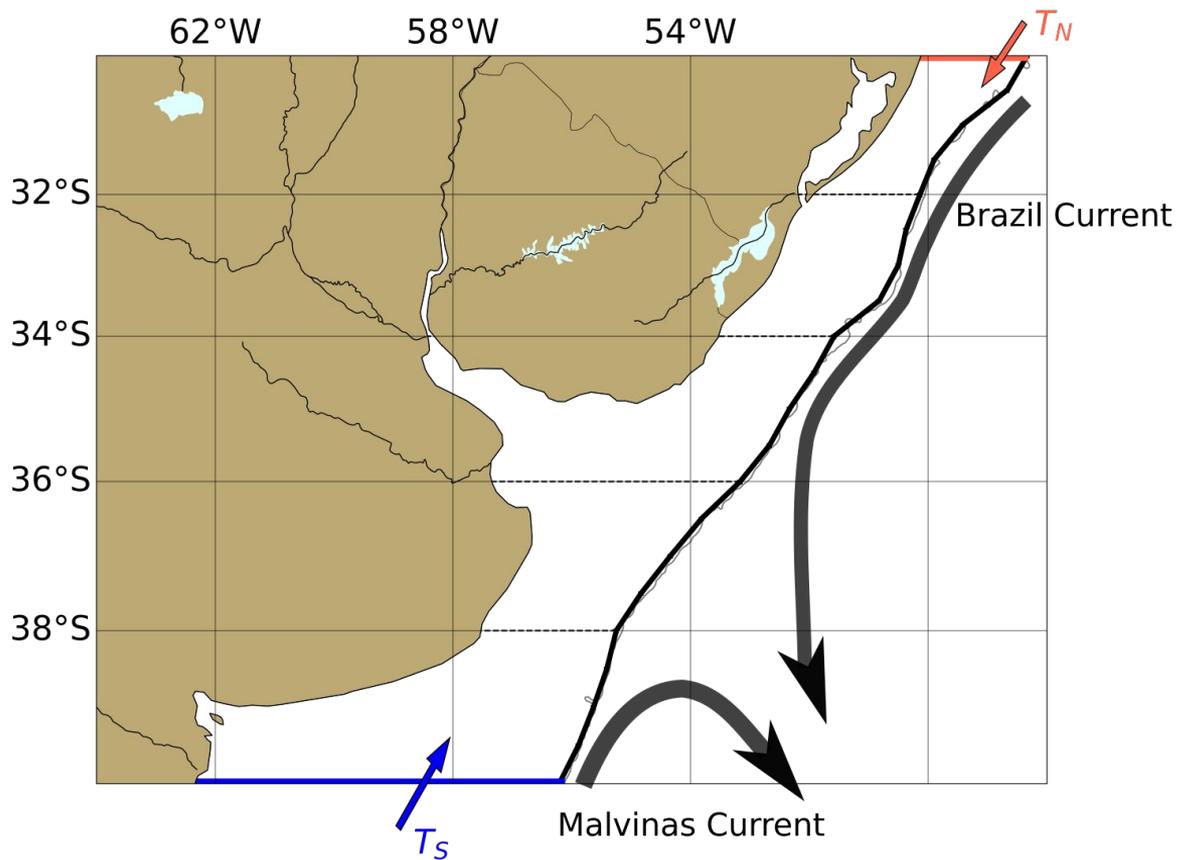
Possible drivers



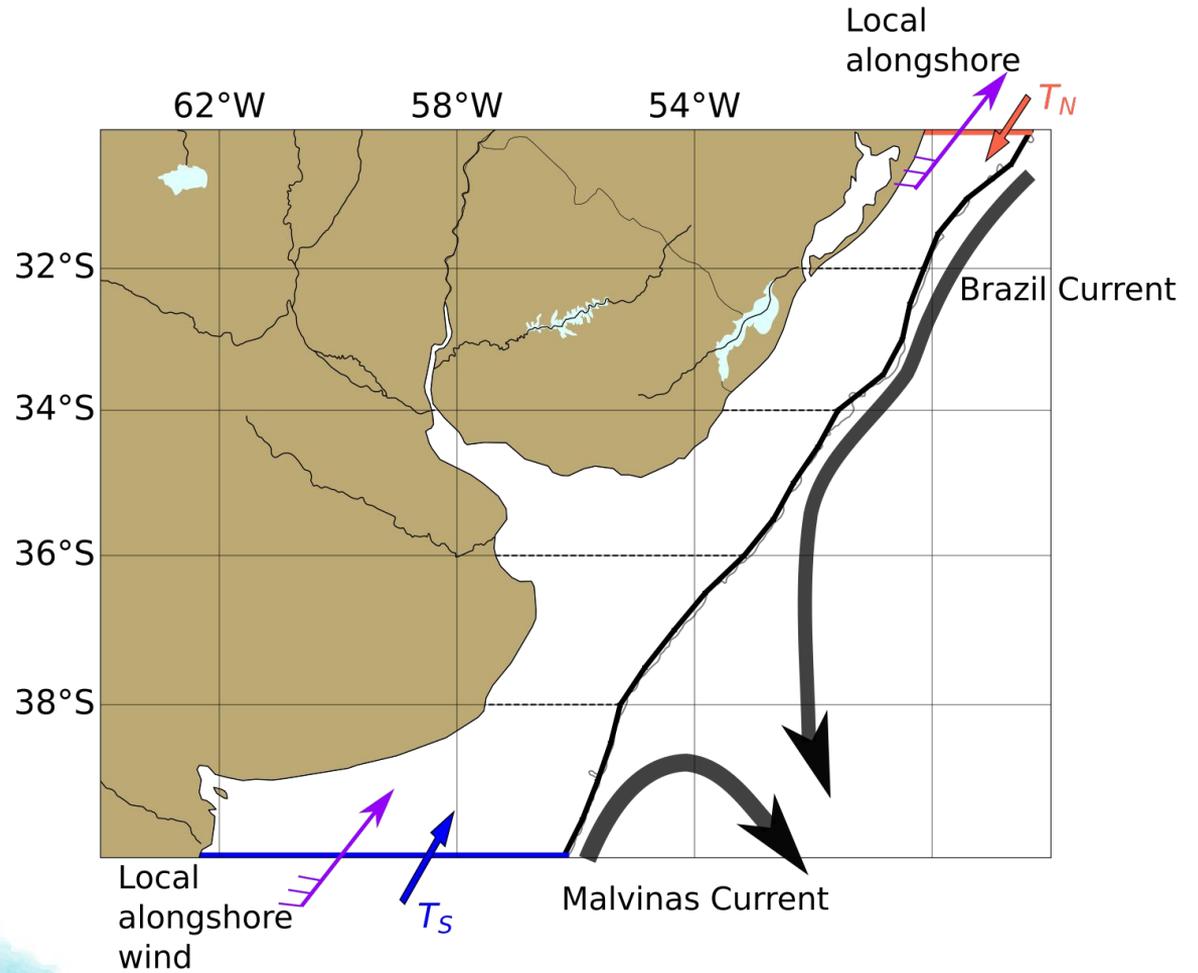
Possible drivers



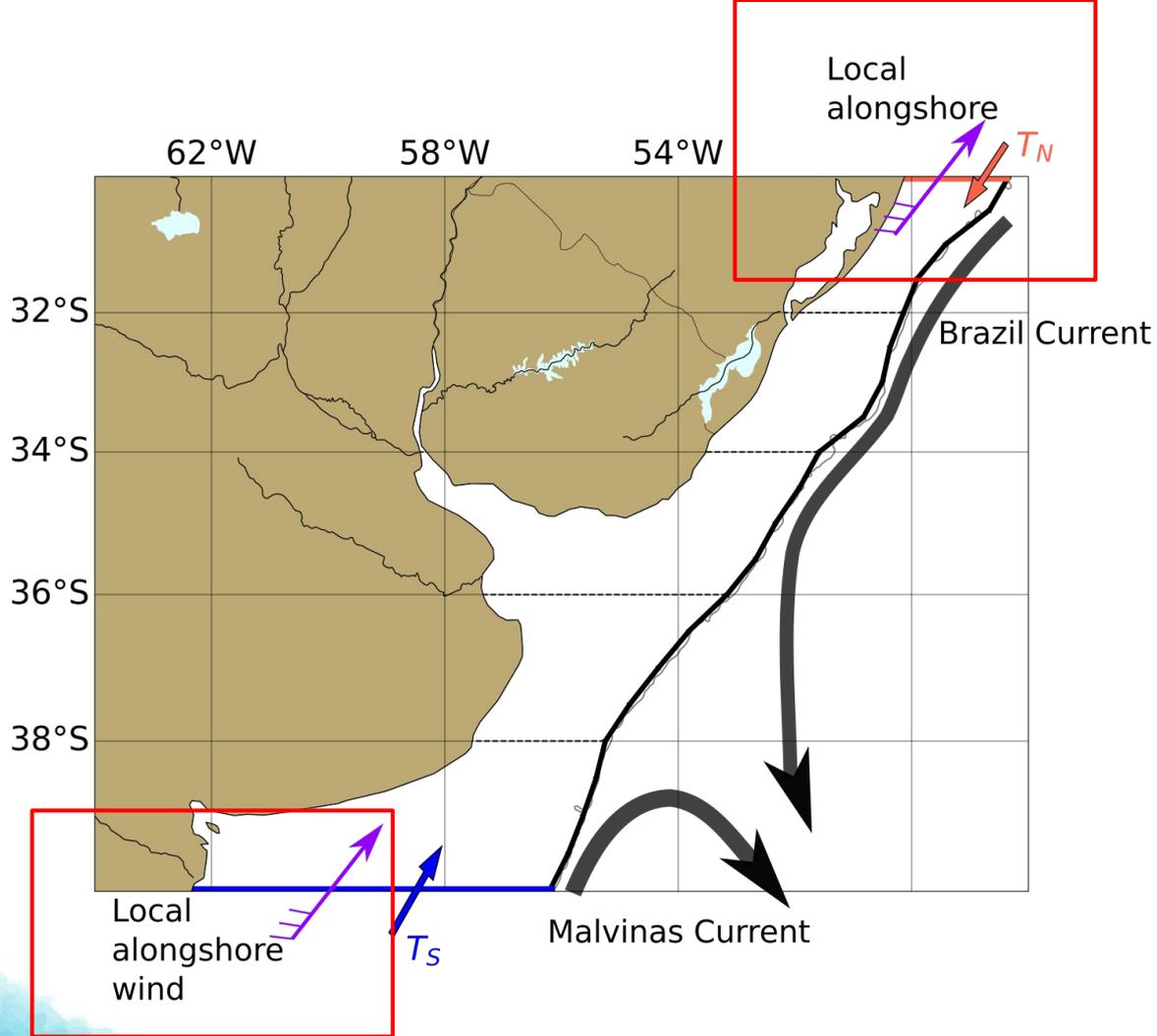
Possible drivers



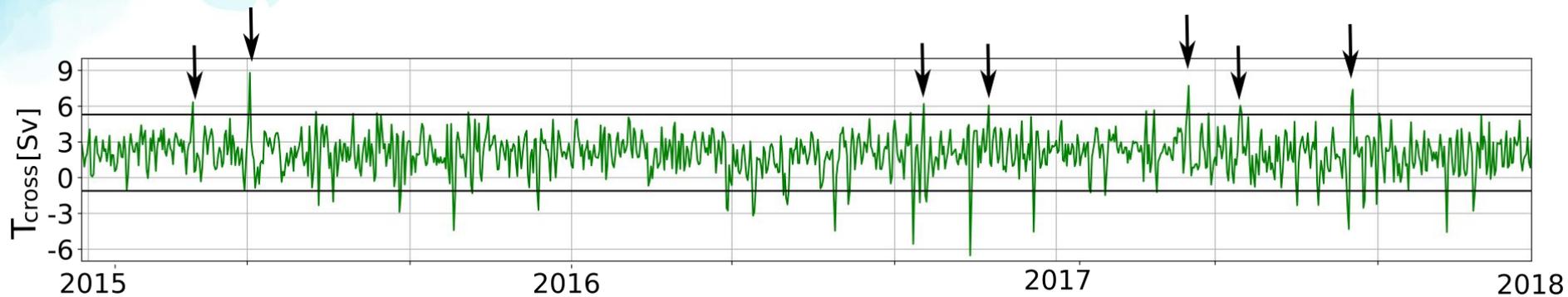
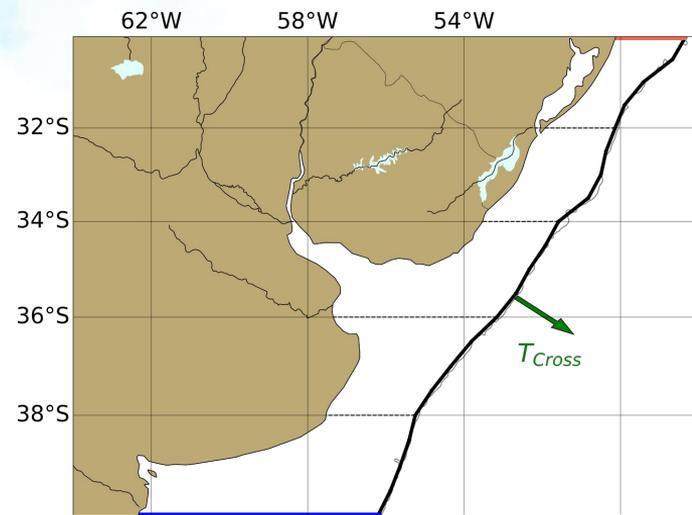
Possible drivers

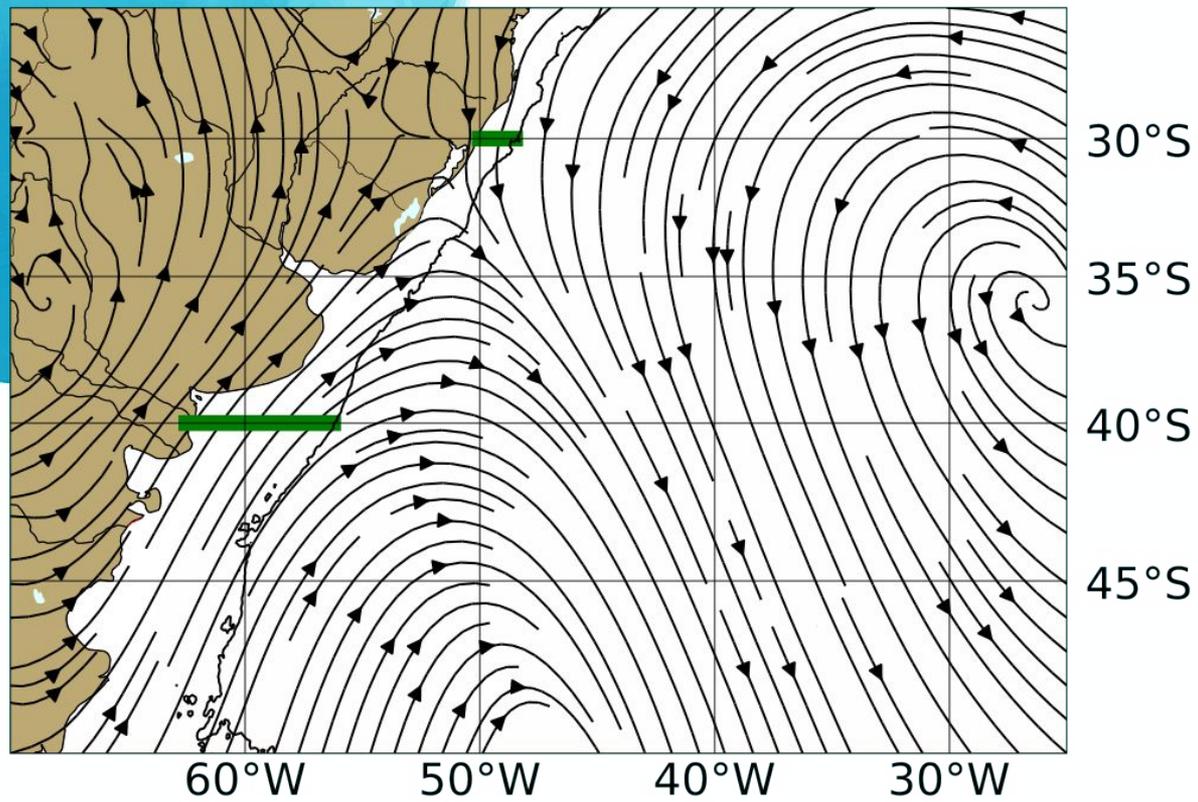


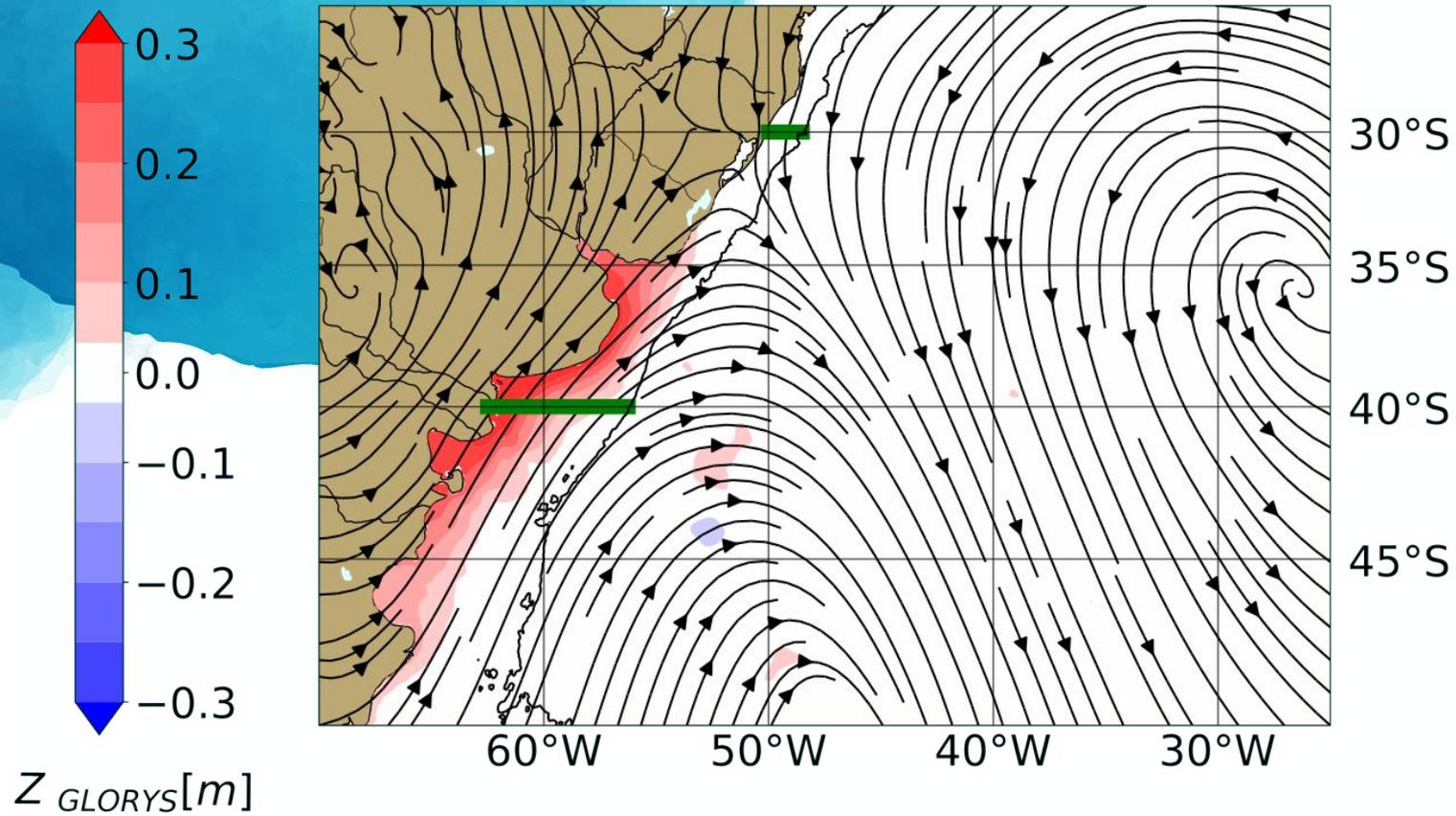
Possible drivers

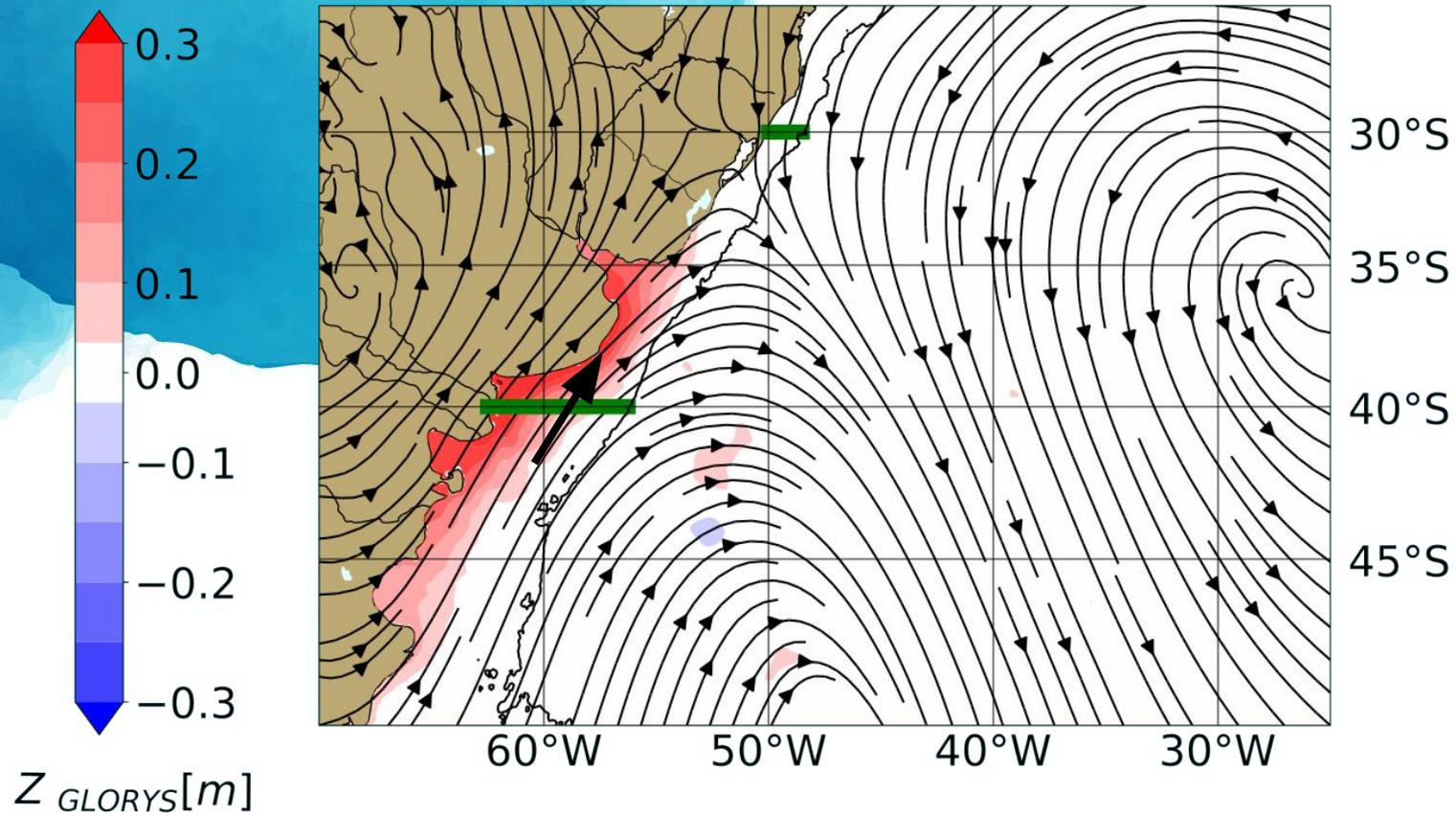


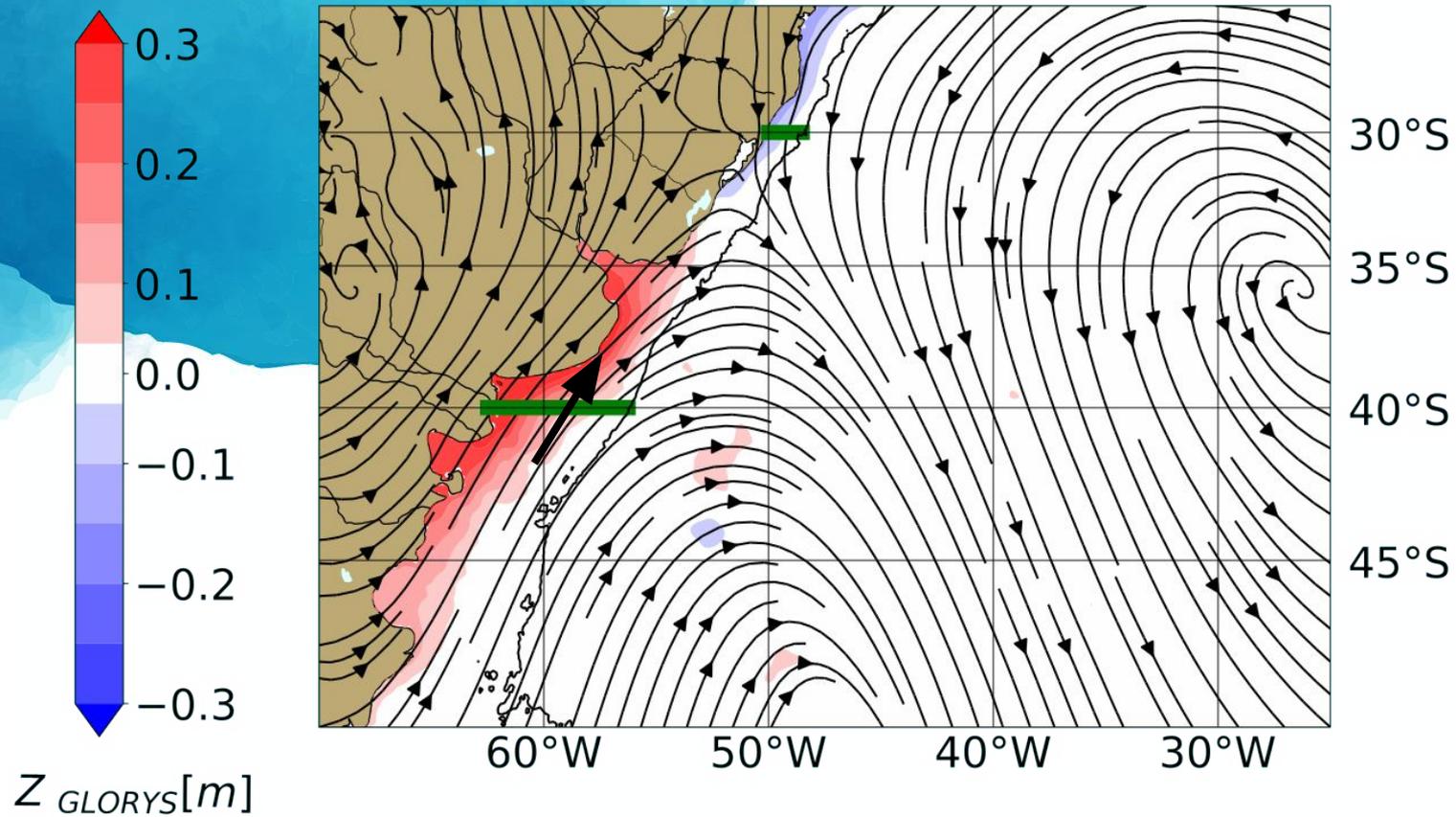
Extreme events

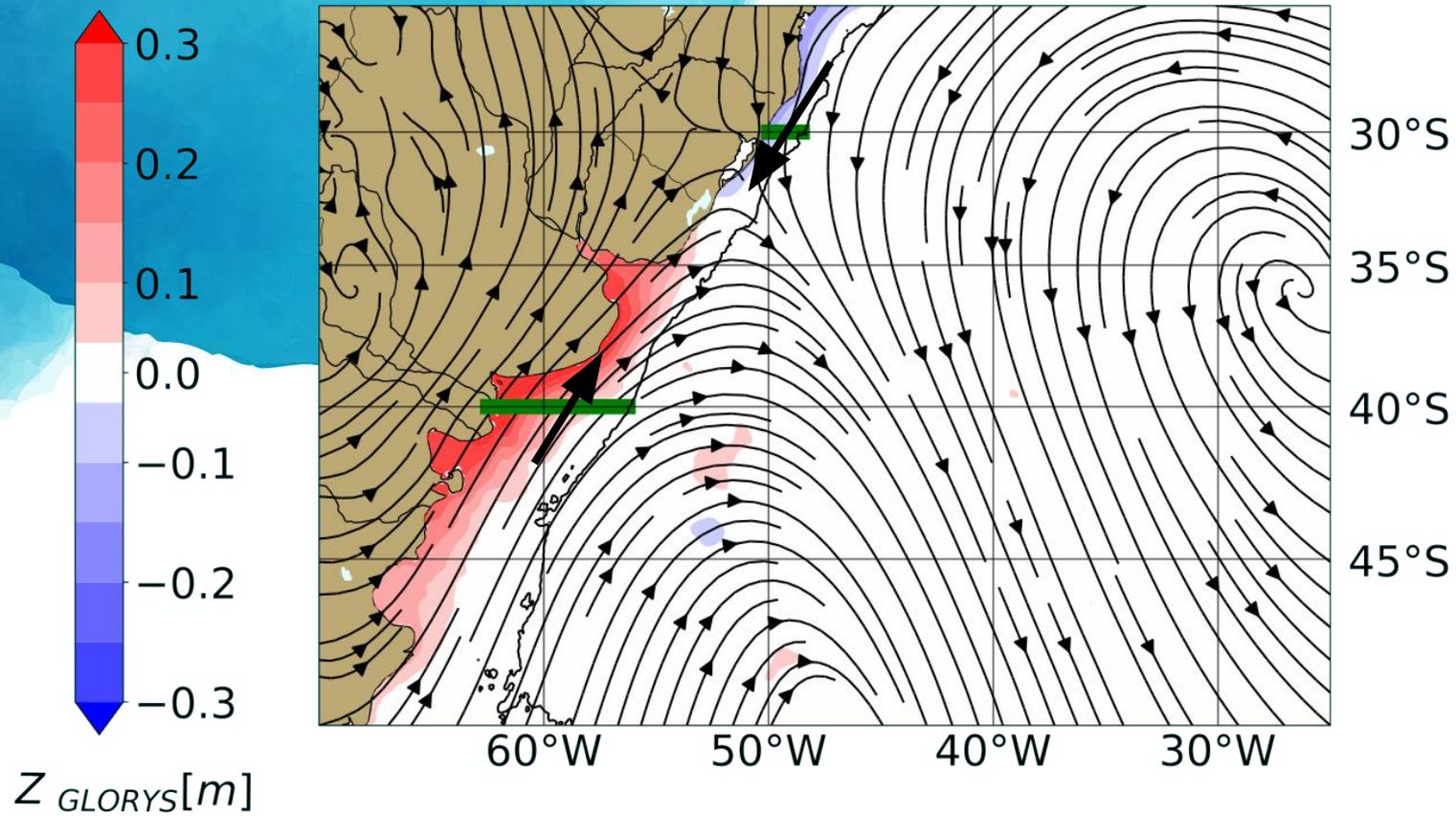


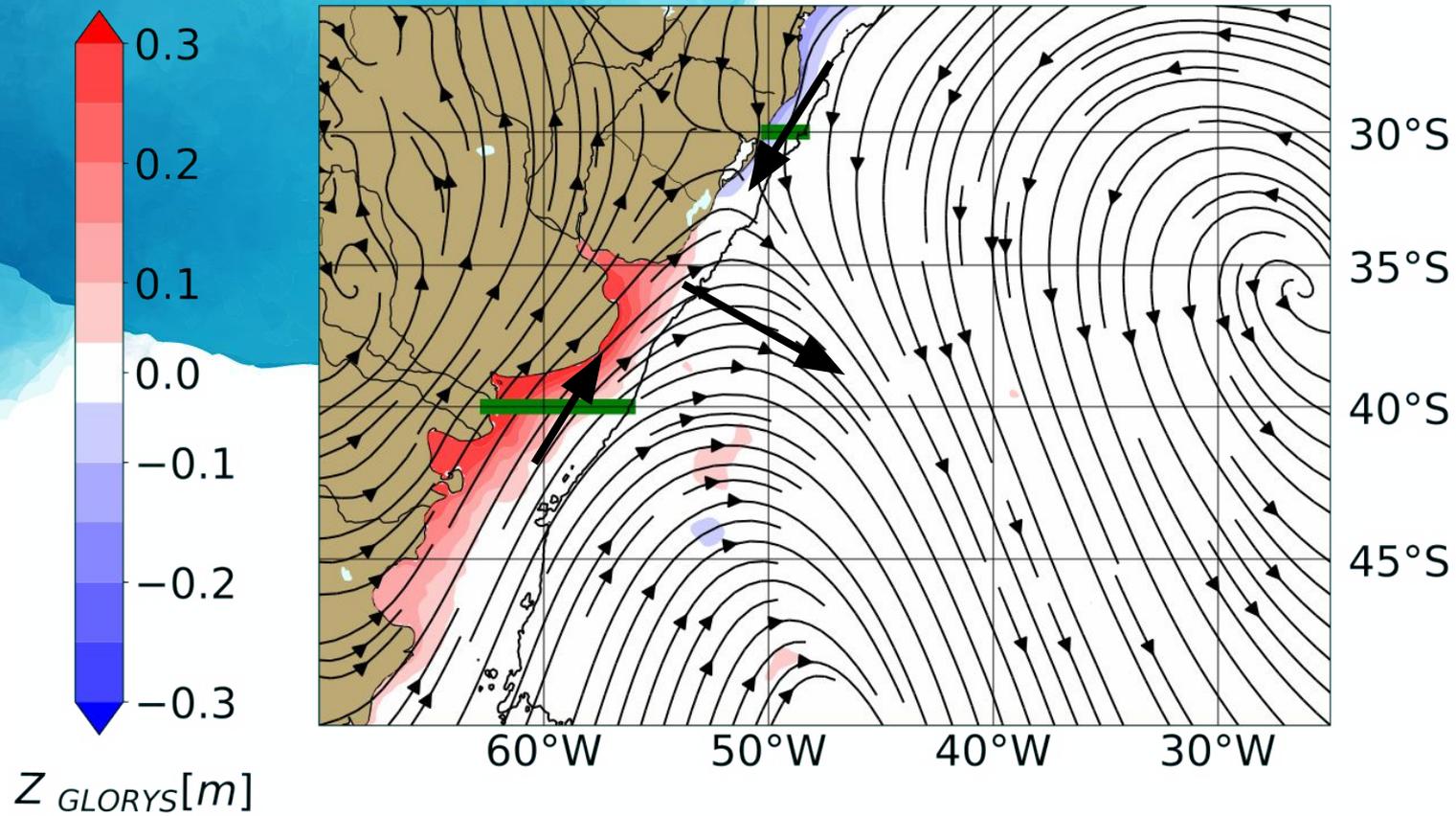






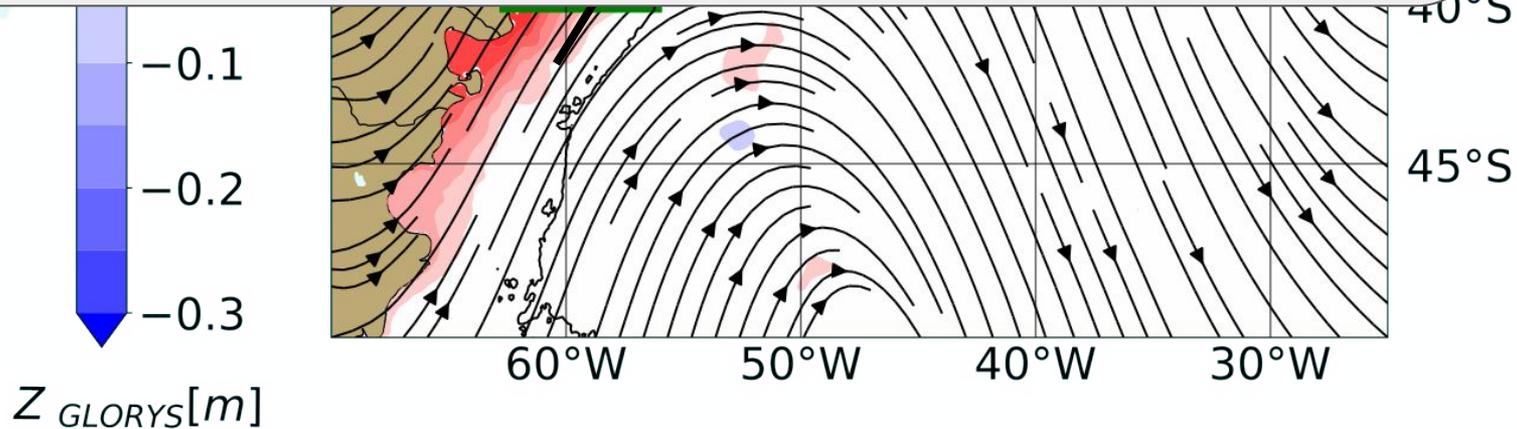






Conclusions:

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



Thank you

