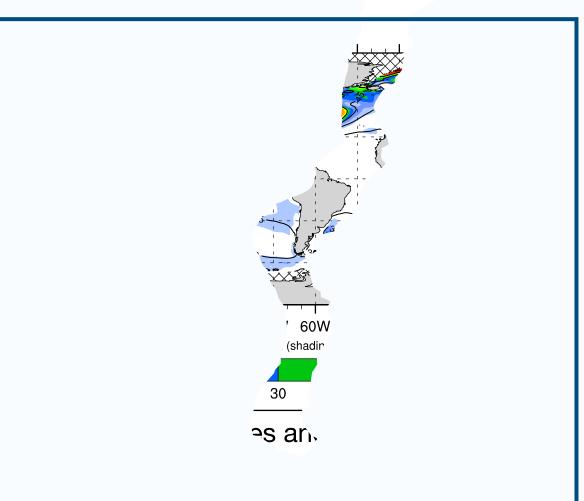
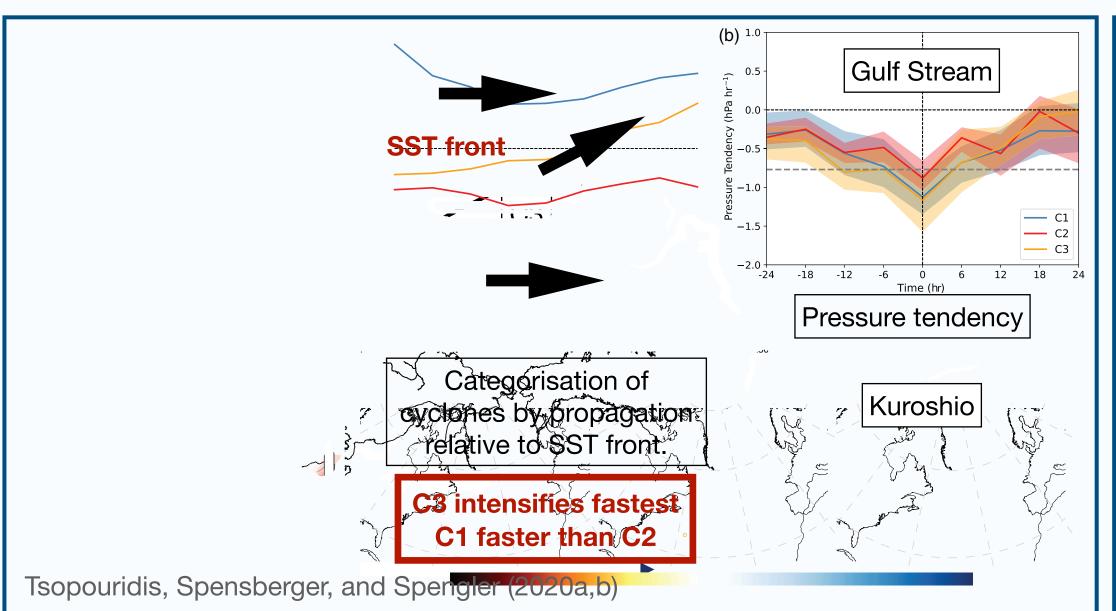
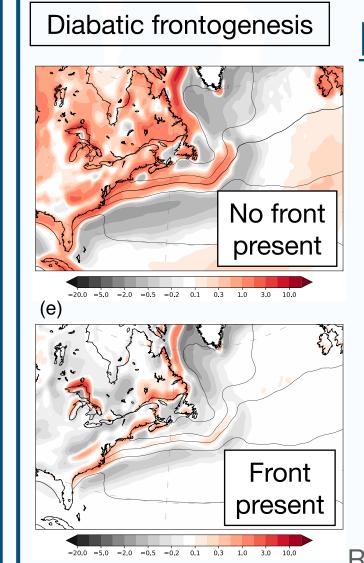
enc

r (thc





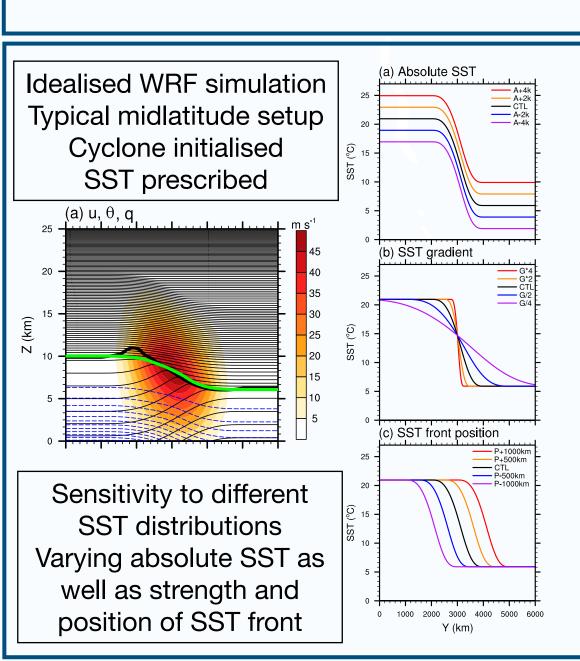


Front-Front Interaction

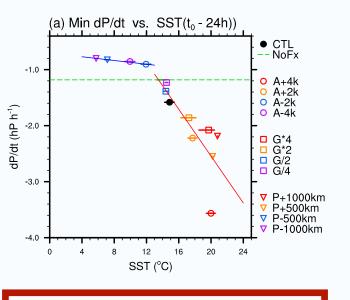
Frontogenesis in ERA-Interim
Tendencies split into adiabatic
and diabatic contributions
and conditioned on an
atmospheric front either being
present or not.

Main diabatic climatological contribution along SST front when no atmospheric front present

Reeder, Spensberger, and Spengler (2021)

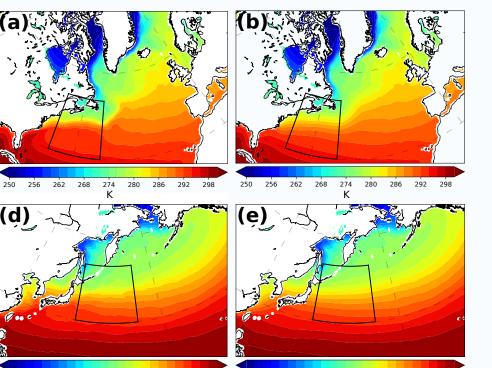


Results not directly affected by SST front



Cyclone development determined by SST at position 24h before

AFES simulations with realistic SST (CNTL) and smoothed SST in either Kuroshio or Gulf Stream



SST in CNTL and smooth

experiment and difference

298

Tracking of cyclones with respect to their position to the SST front.

No significant change in individual cyclone behaviour

Conditional climatologies of precipitation and surface fluxes based on cyclones being present or not being present.

Difference in surface fluxes and convection associated with smoothing SST front are mainly attributable to no-cyclone conditions.

Tsopouridis, Spengler, and Spensberger (2021)