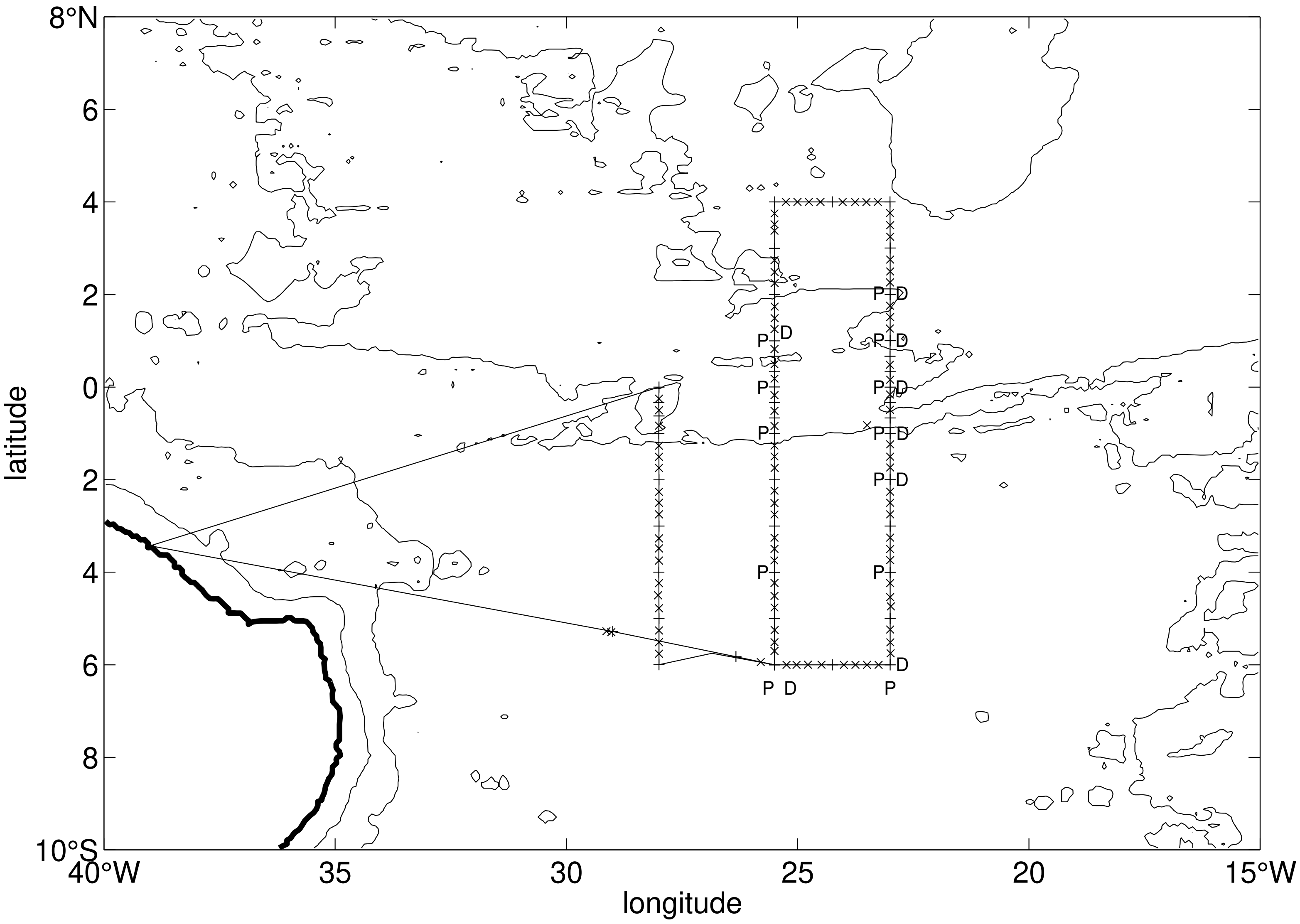

FIG. 1: Location map with cruise track. The symbols are: + = CTD/LADCP station x = XBT, P = PALACE float and D = surface drifter.

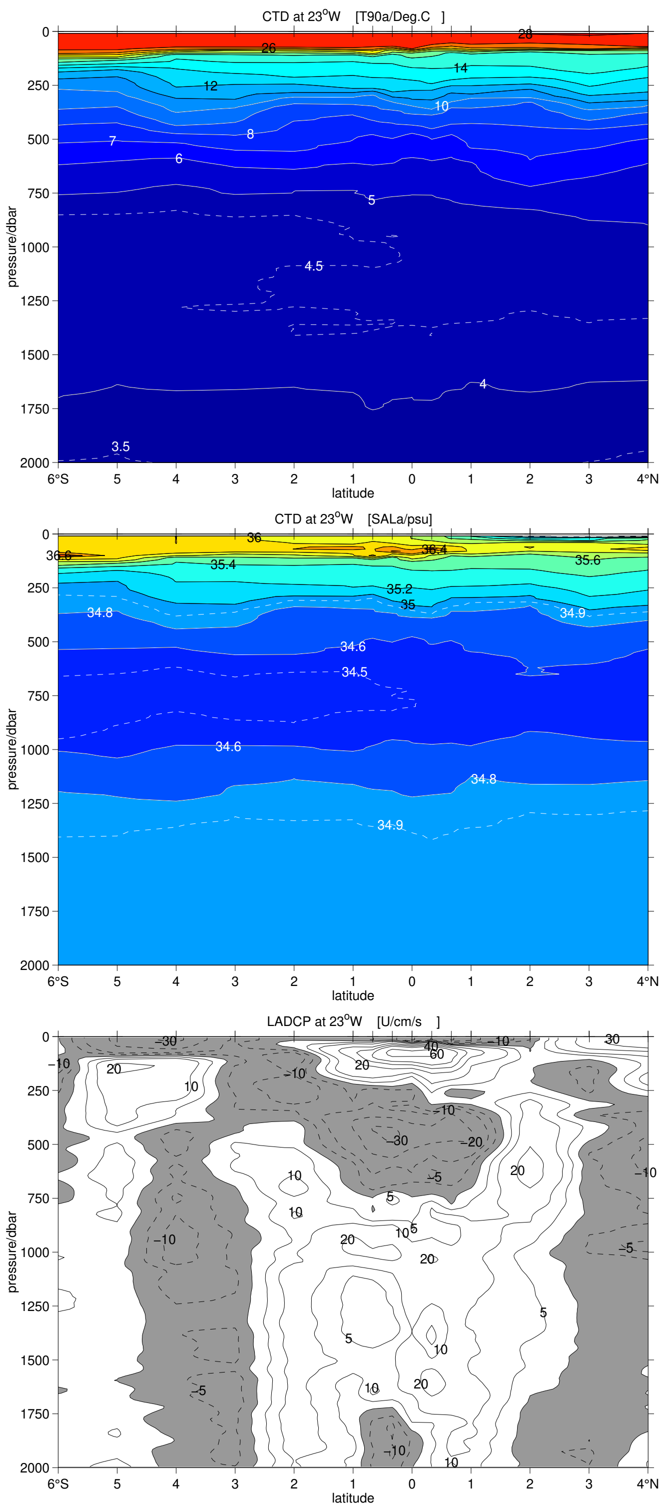

FIG. 2: 23^{o}W section. Upper panel: Temperature. Middle panel: Salinity. Lower panel: Zonal velocity.

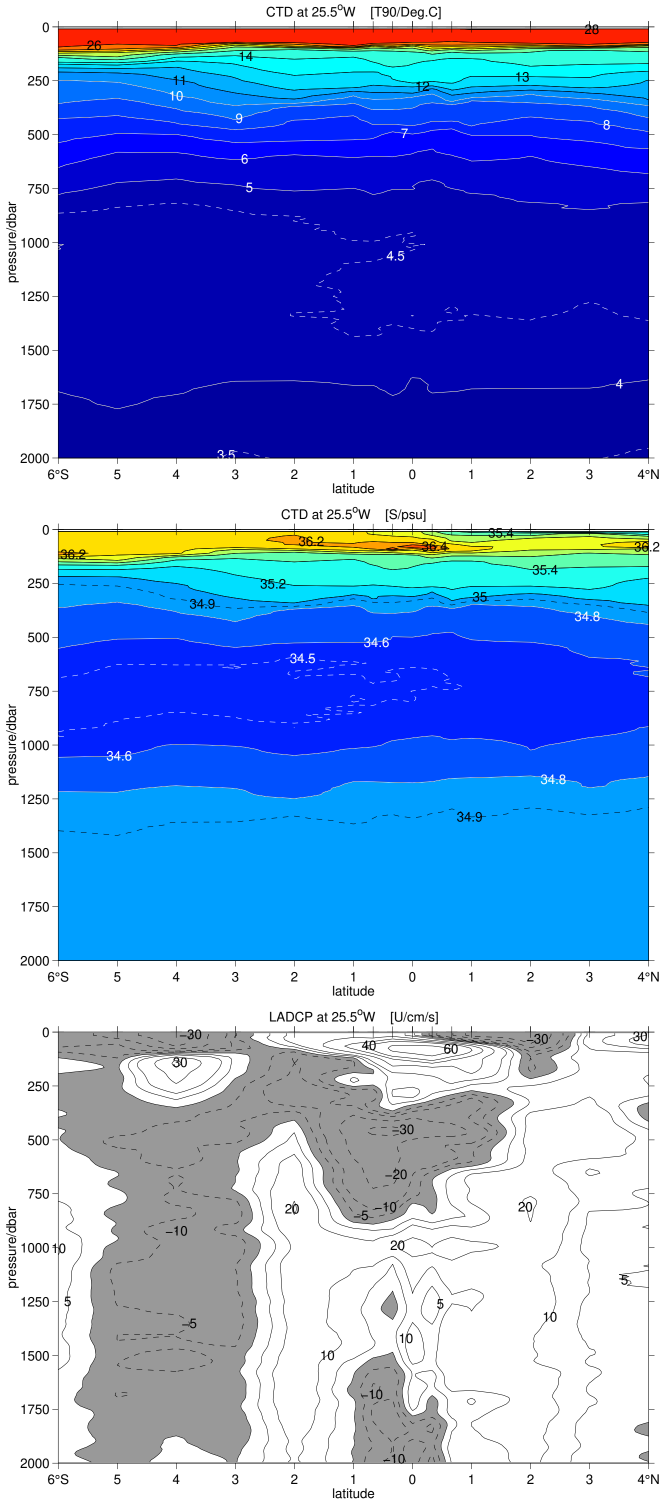

FIG. 3: 25.5^{o}W section. Upper panel: Temperature. Middle panel: Salinity. Lower panel: Zonal velocity.

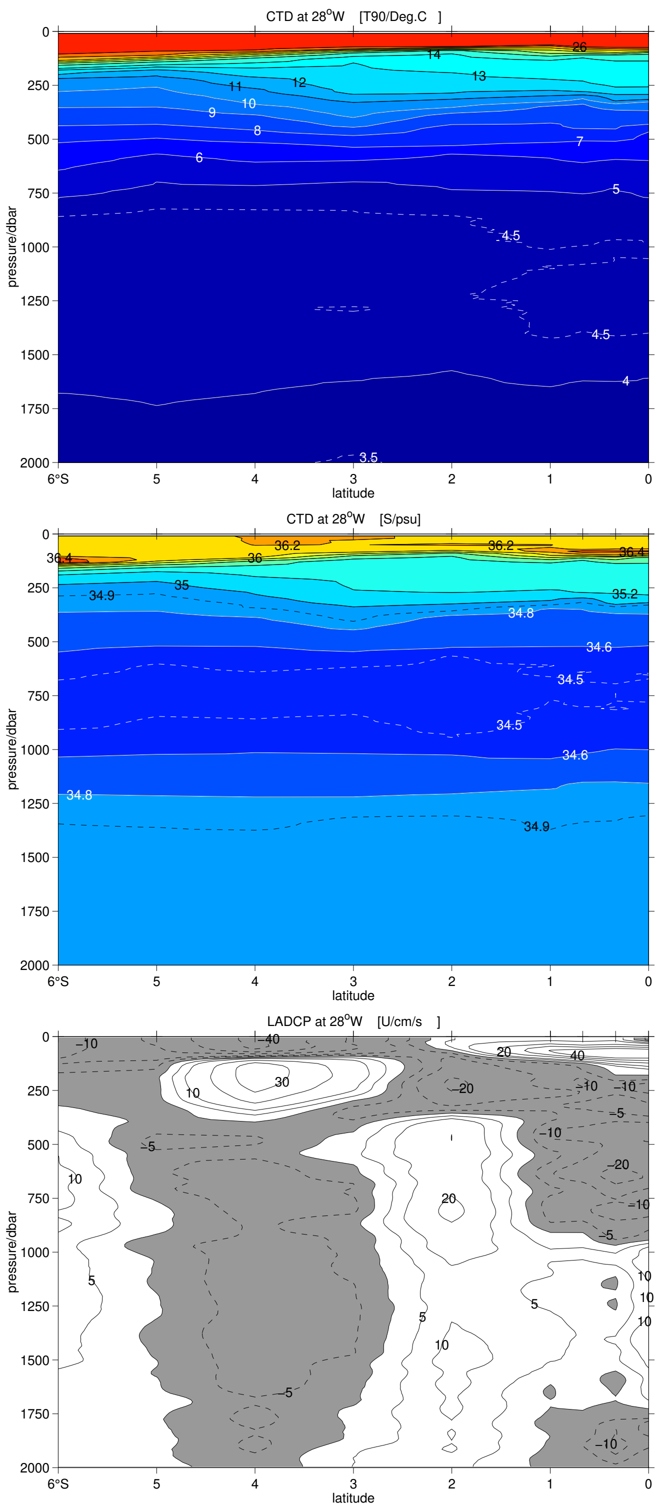

FIG. 4: 28^{o}W section. Upper panel: Temperature. Middle panel: Salinity. Lower panel: Zonal velocity.

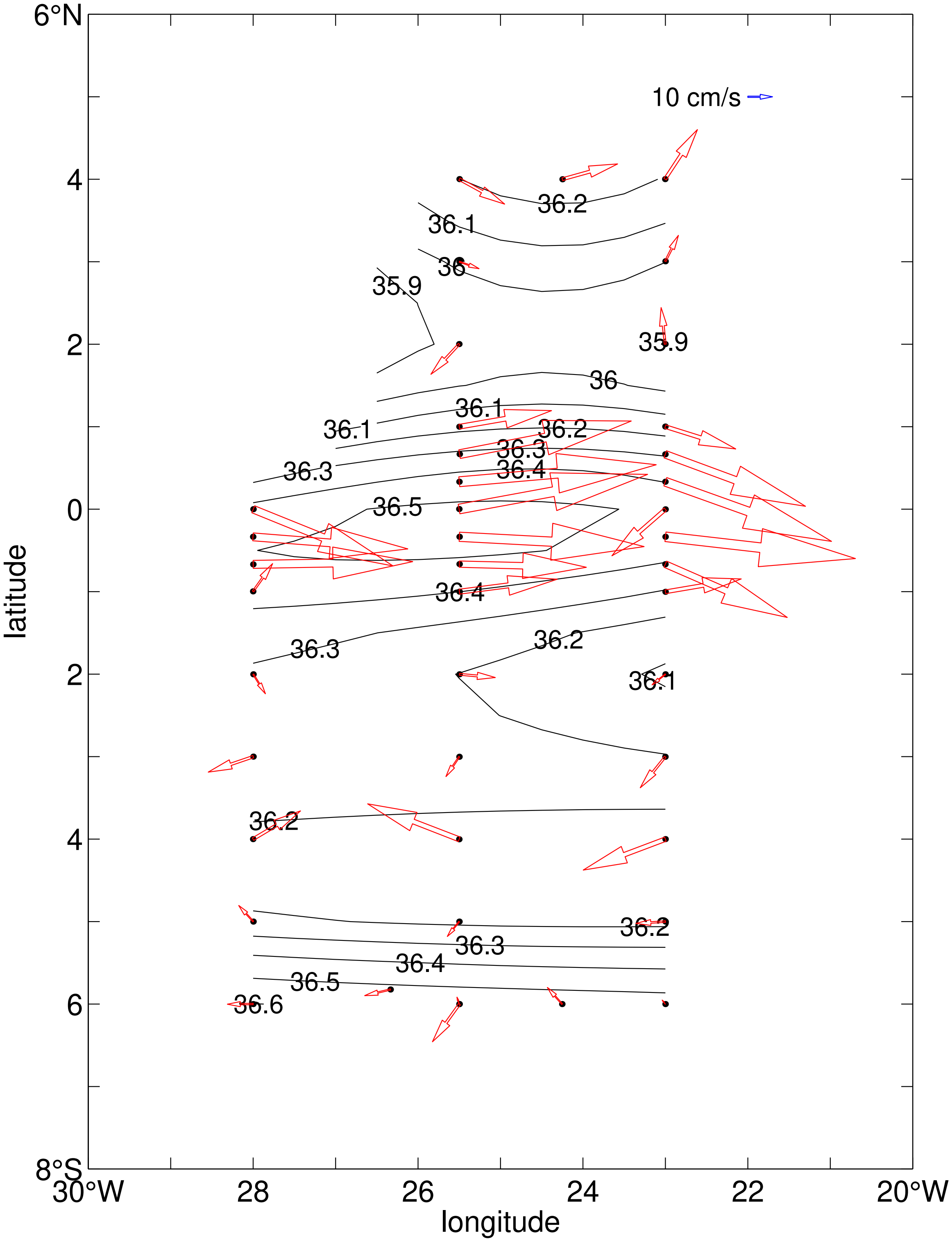

FIG. 5: Salinity and velocity vectors from the lowered ADCP at the salinity maximum of the Subtropical Underwater (STUW).

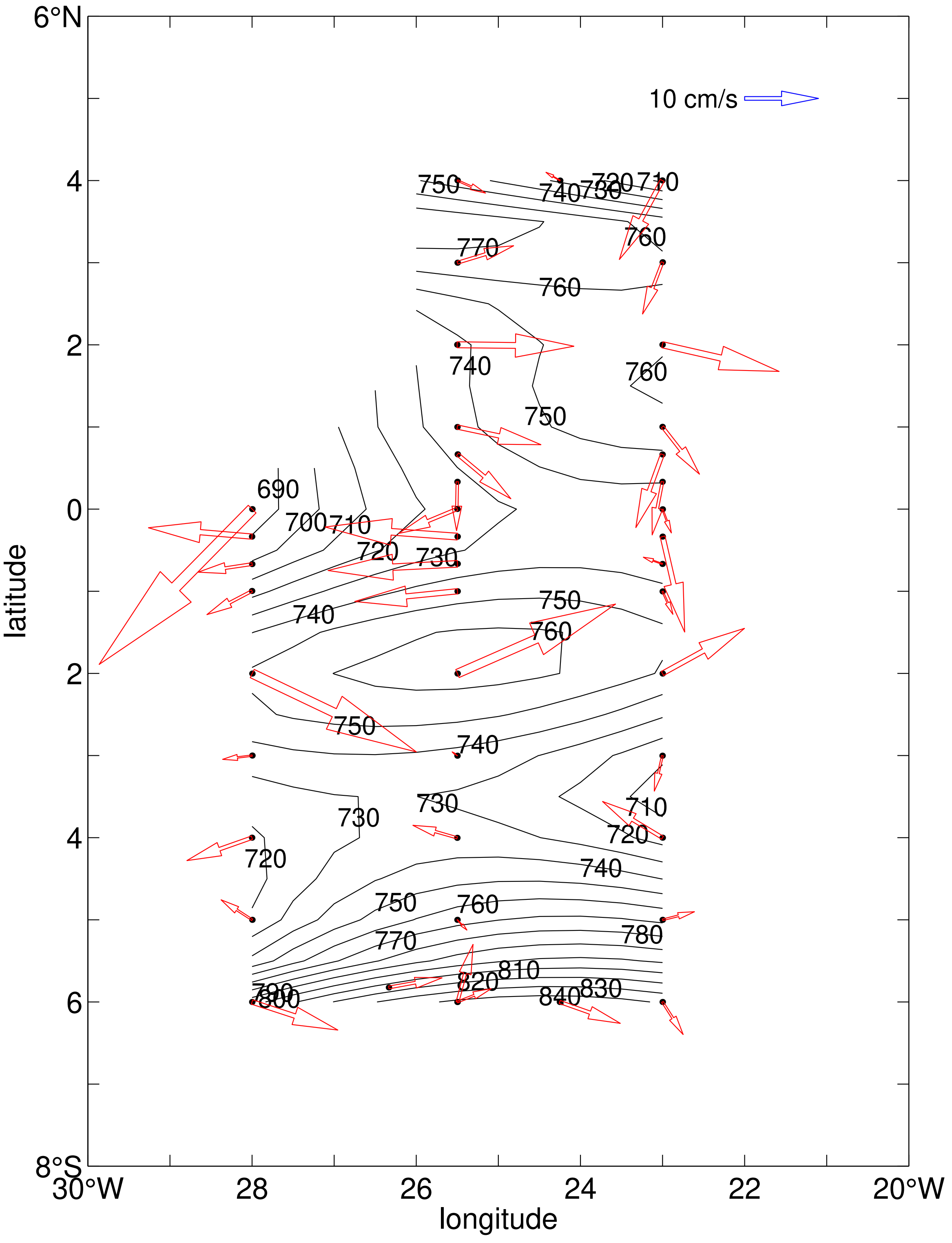

FIG. 6: Pressure and velocity vectors from the lowered ADCP at the salinity minimum of the Antarctic Intermediate Water (AAIW).

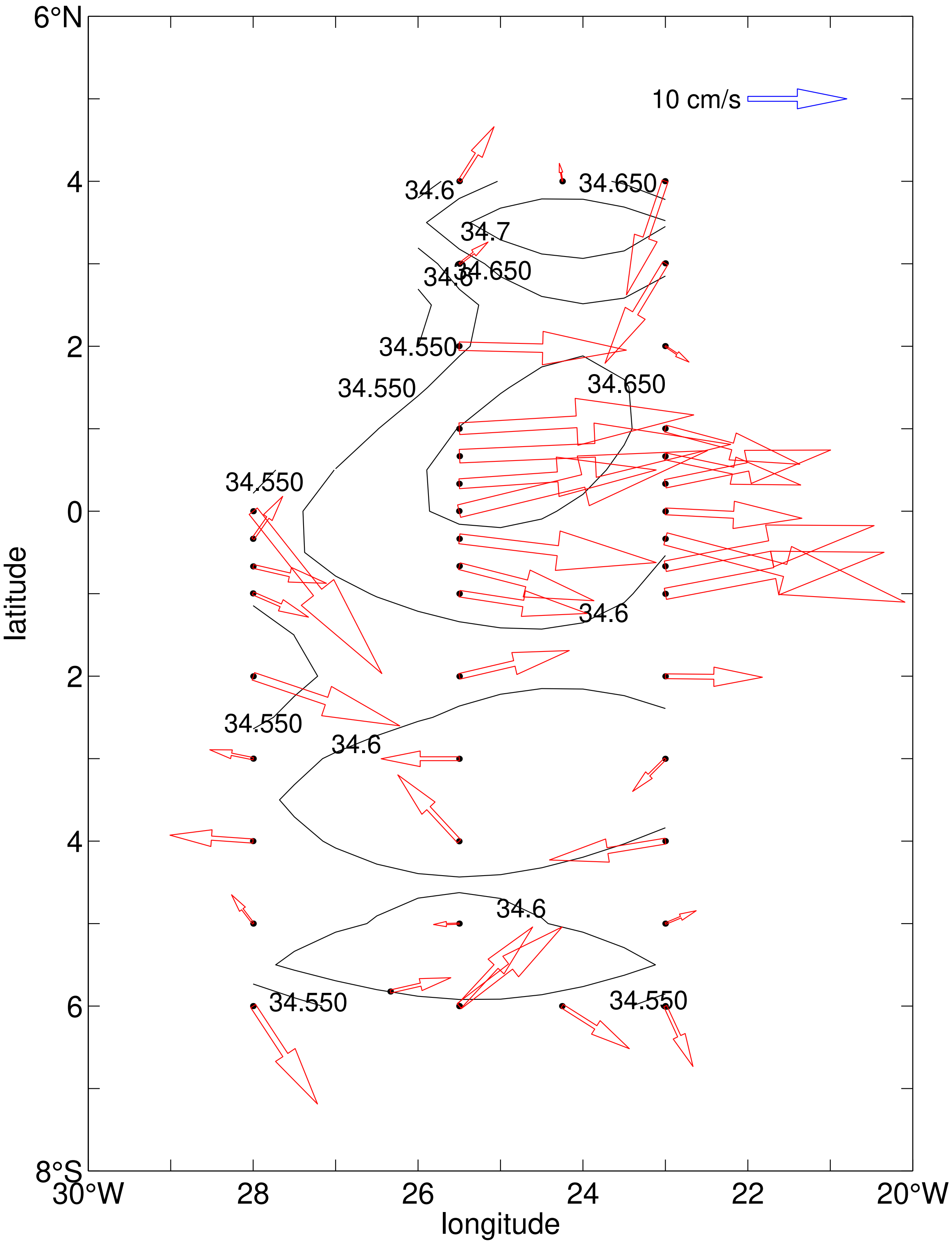

FIG. 7: Salinity and velocity vectors from the lowered ADCP at the 1000 dbar (the target depth of the PALACE floats).