

# Drake Passage R/V L. M. Gould (LMG) Observations (NSF OPP funding)

## XBT/XCTD (Sprintall)

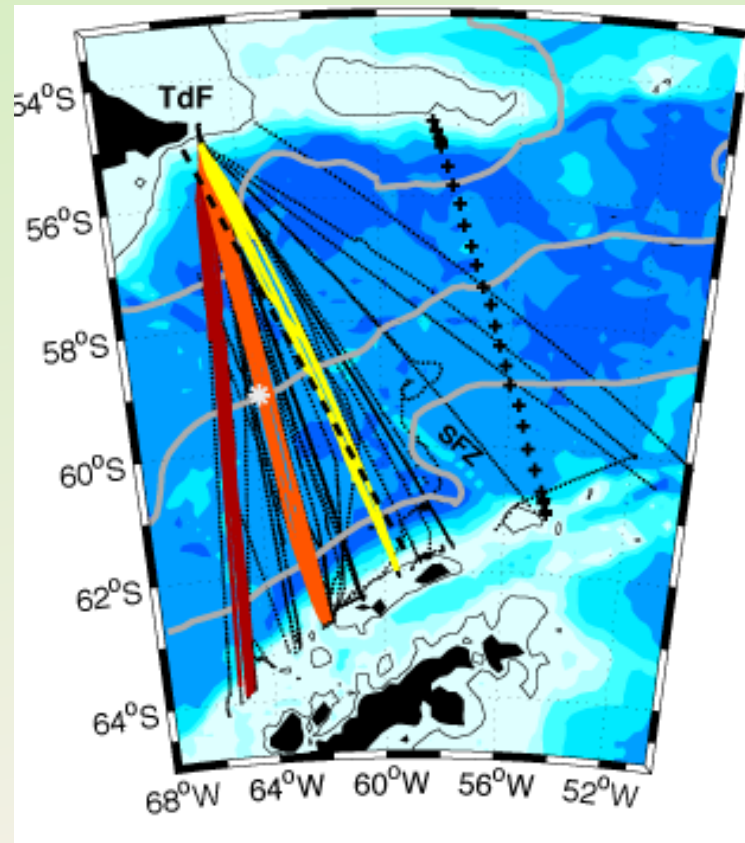
- 6x/year
- 1996-2009
- 800 m range

## ADCP (Chereskin/Firing)

- 20x/year (all cruises)
- 300 m range (1999-2004)
- 1000 m range (2004-2009)

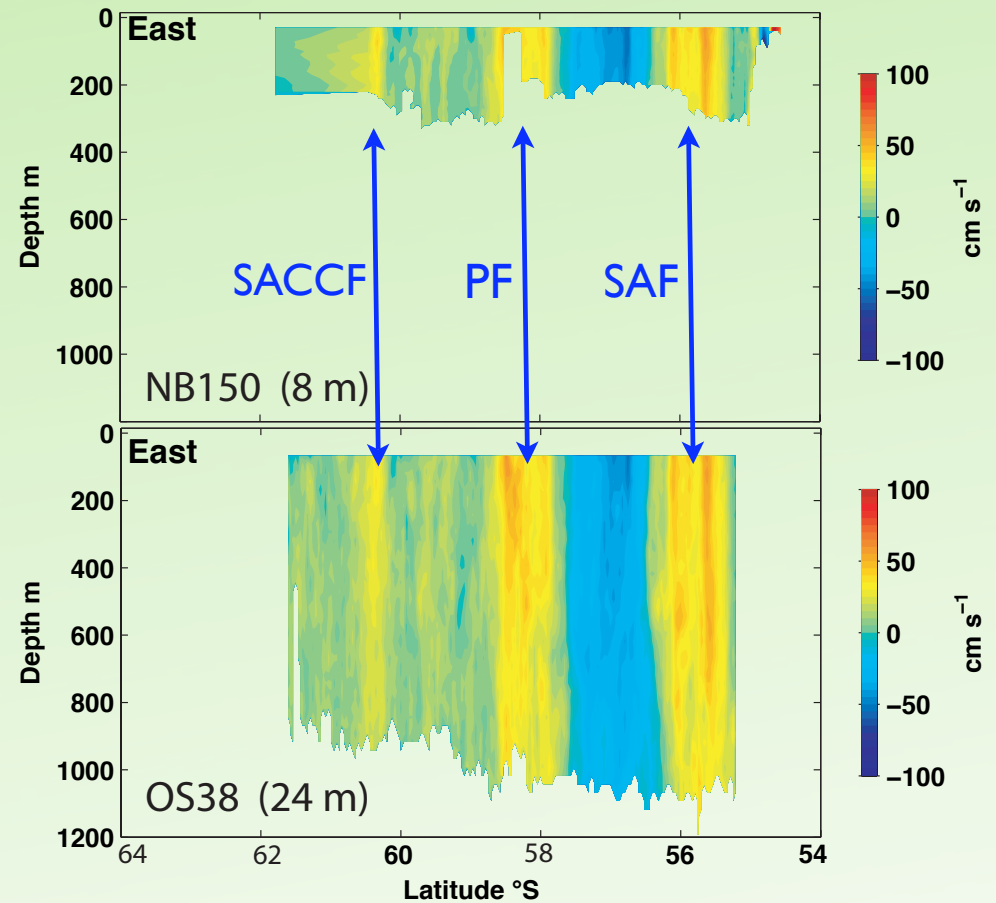
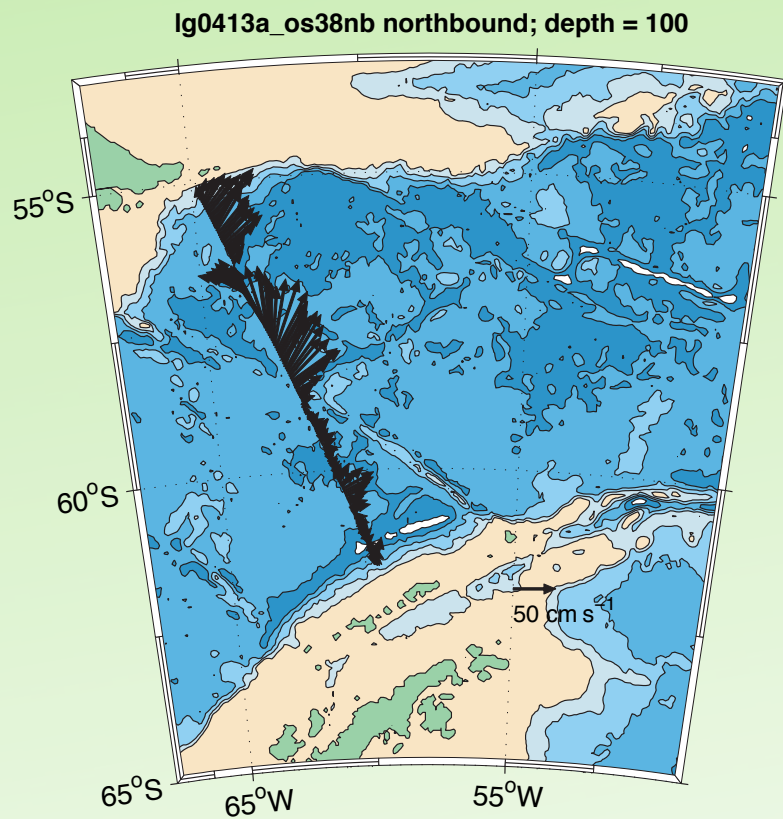
## pCO<sub>2</sub> (Sweeney)

- 20x/year (all cruises)
- surface (2002-2008)



## Monitoring in Drake Passage

- Transport (XBT/XCTD): Empirical relation between upper ocean temperature and baroclinic transport streamfunction (Sprintall, 2002)
- Transport (ADCP): Direct velocity observations (Lenn, Chereskin, Sprintall and Firing, 2007)
- Circulation (ADCP): Improving estimates of the mean and time dependent streamlines (Lenn, Chereskin and Sprintall, submitted)
- Eddy heat transport (ADCP/XBT): Longterm goal; large errors in estimating flux divergence



NB150: 300 m range and 8 m resolution

OS38: 1000 m range and 24 m resolution

