High Resolution Forecasts for an Antarctic Field Campaign.

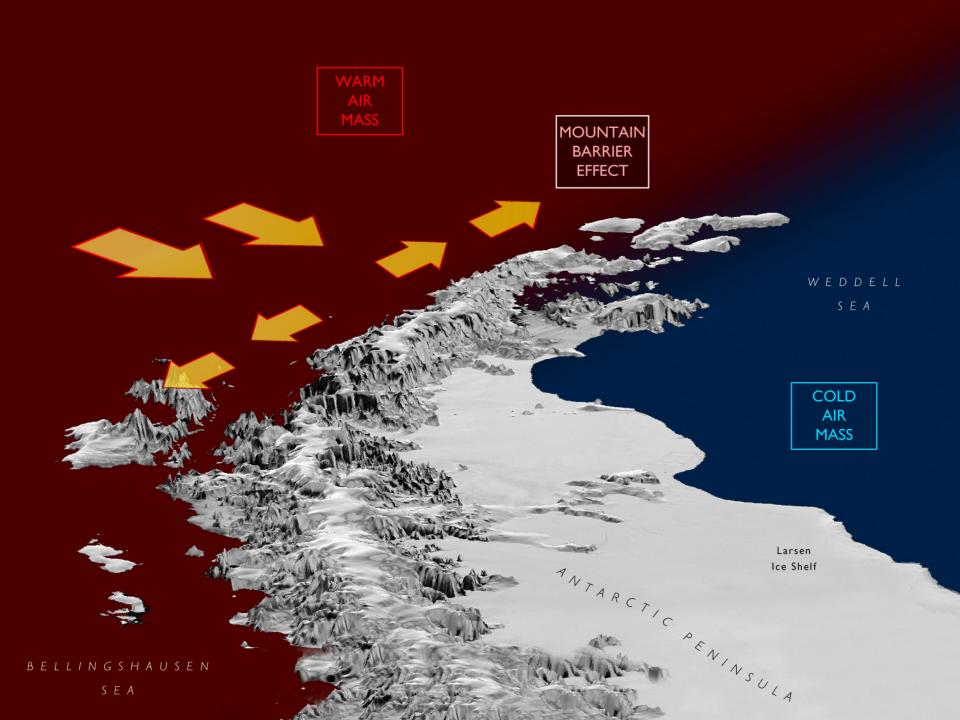
Tom Lachlan-Cope, Victoria Smith, Andy Elvidge, Amélie Kirchgaessner, Russ Ladkin, Phil Anderson, Peter Munneke

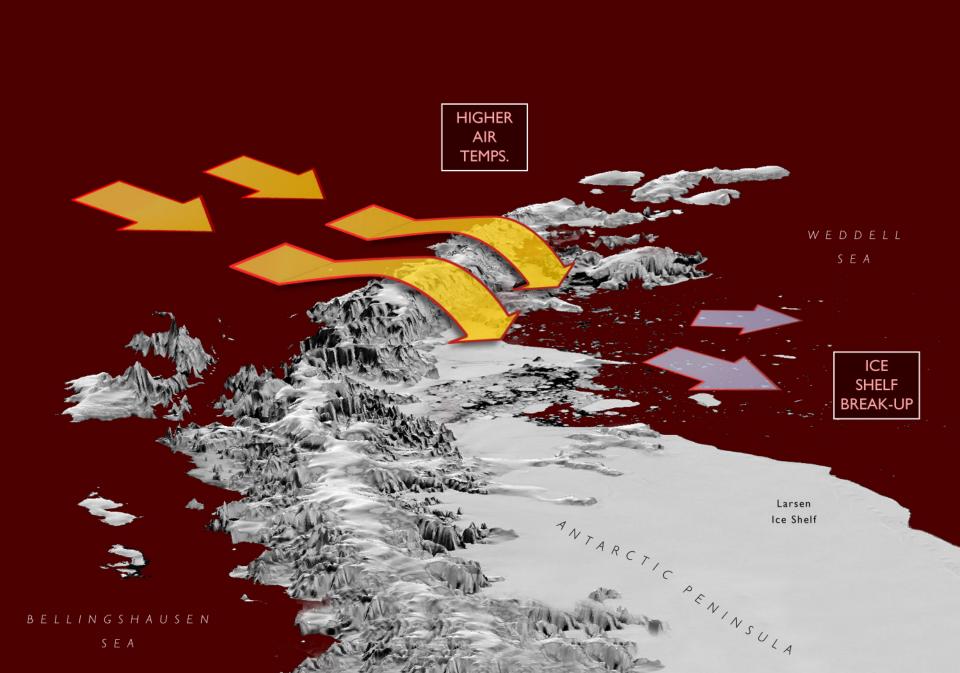


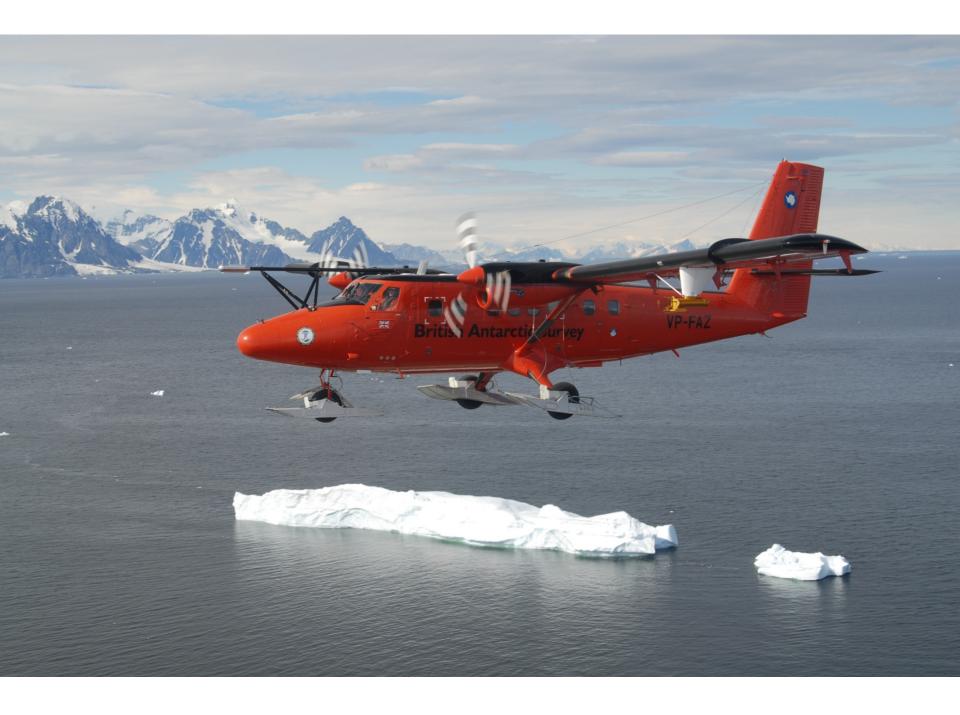
OFCAP

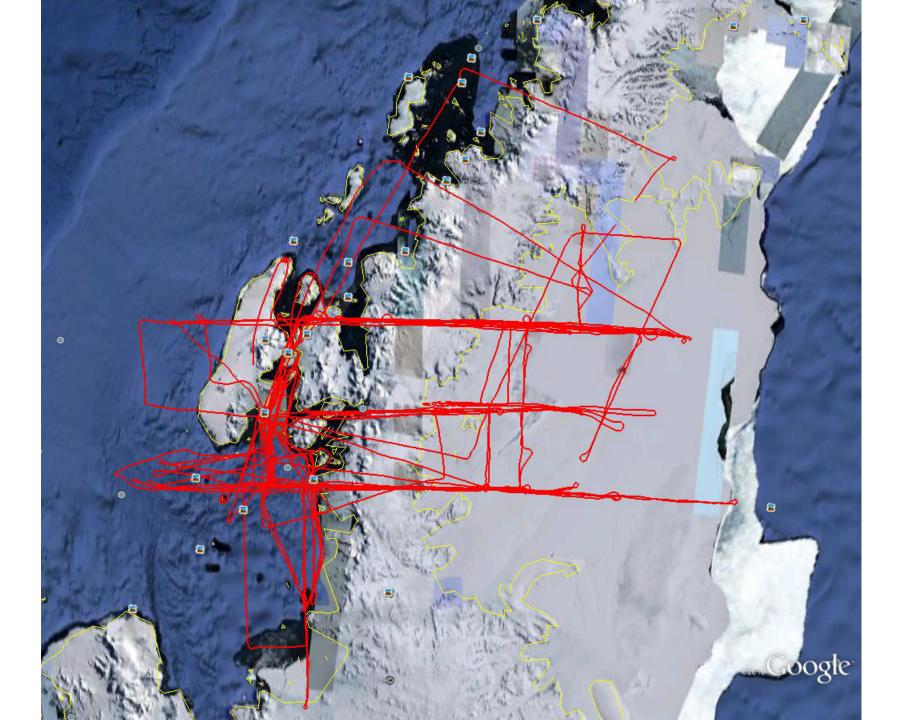
- Orographic Forcing and Climate on the Antarctic Peninsula
- Intensive observing campaign
- 4 AWS across Penisula
- Field camp (3/01/11 1/02/11)
- 22 flights with instrumented aircraft

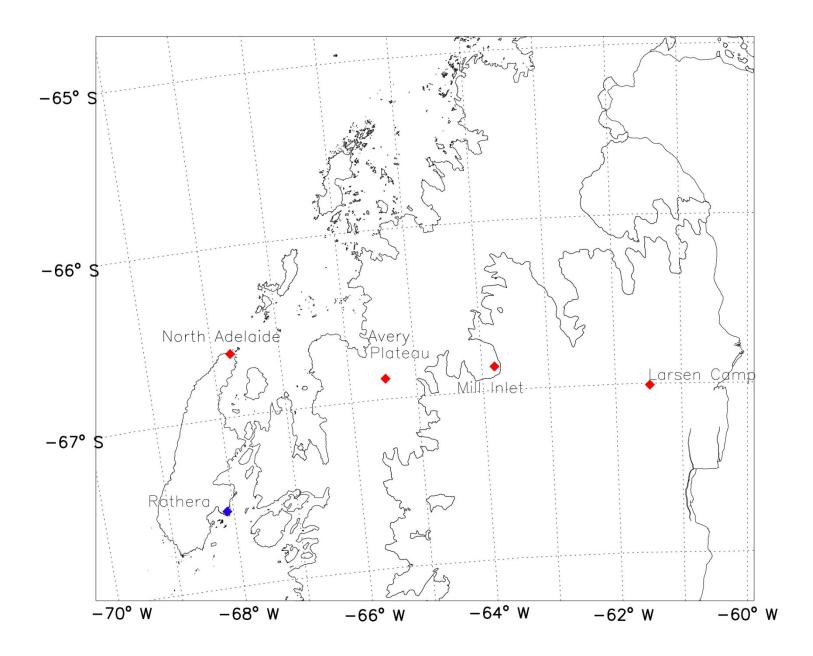






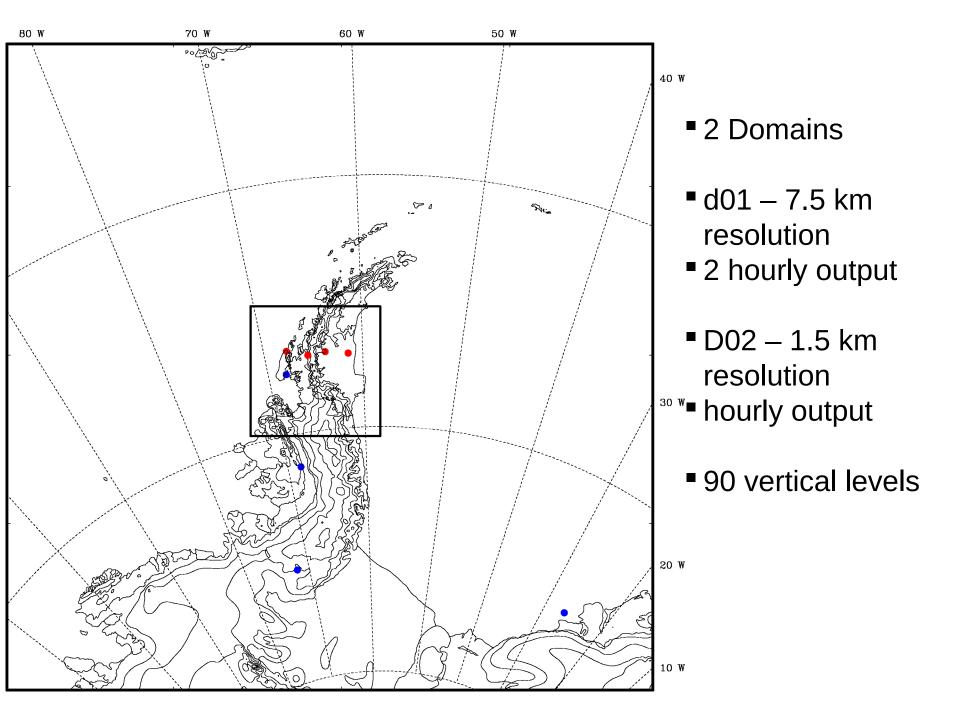


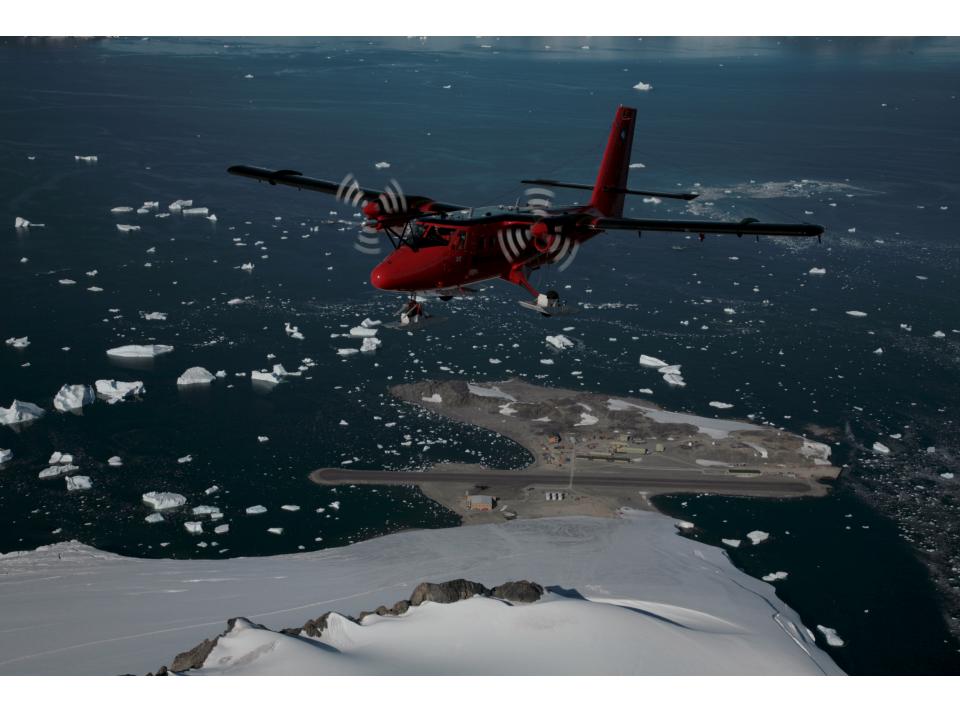


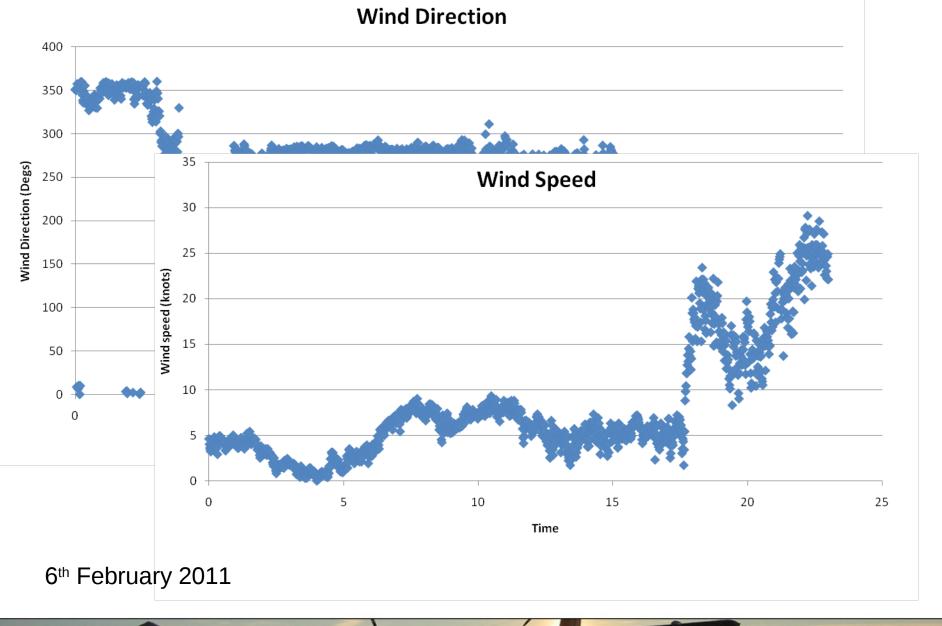




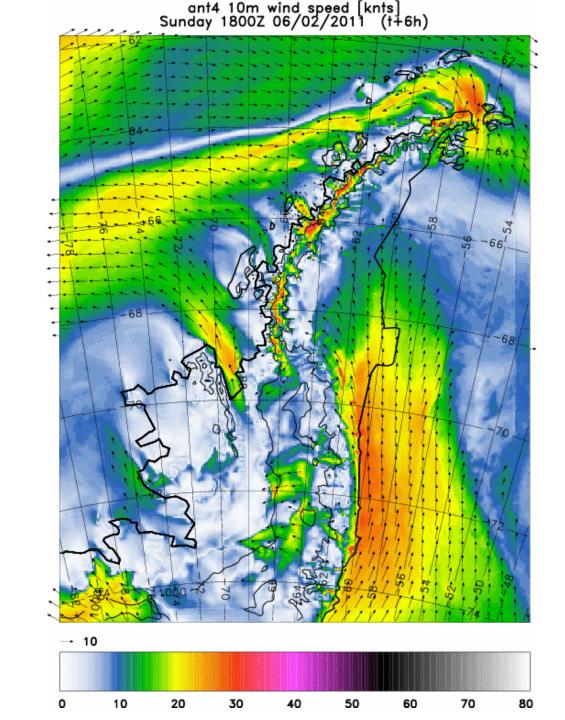




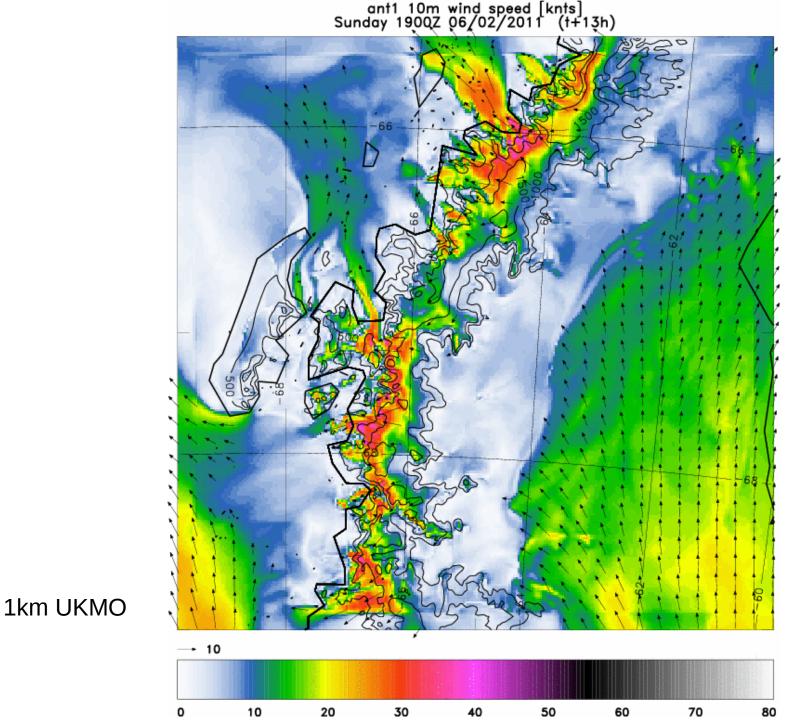


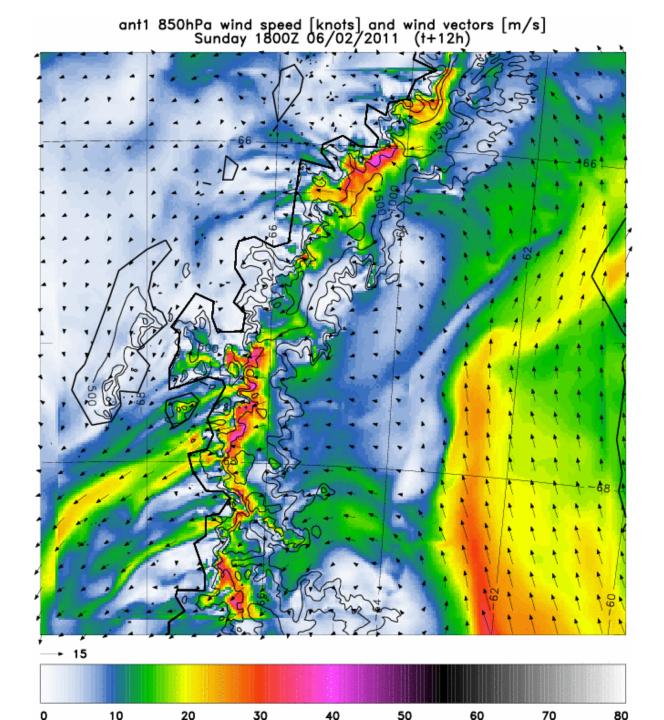


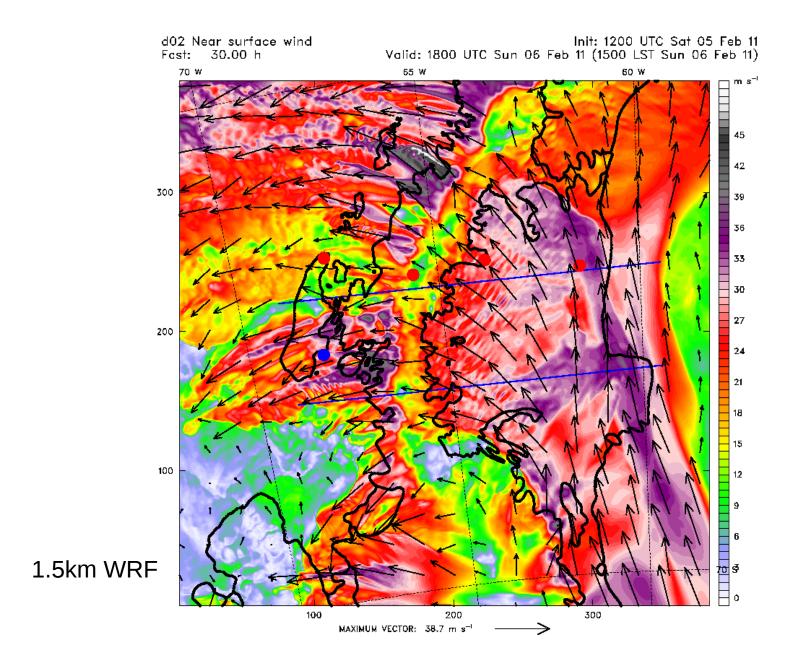


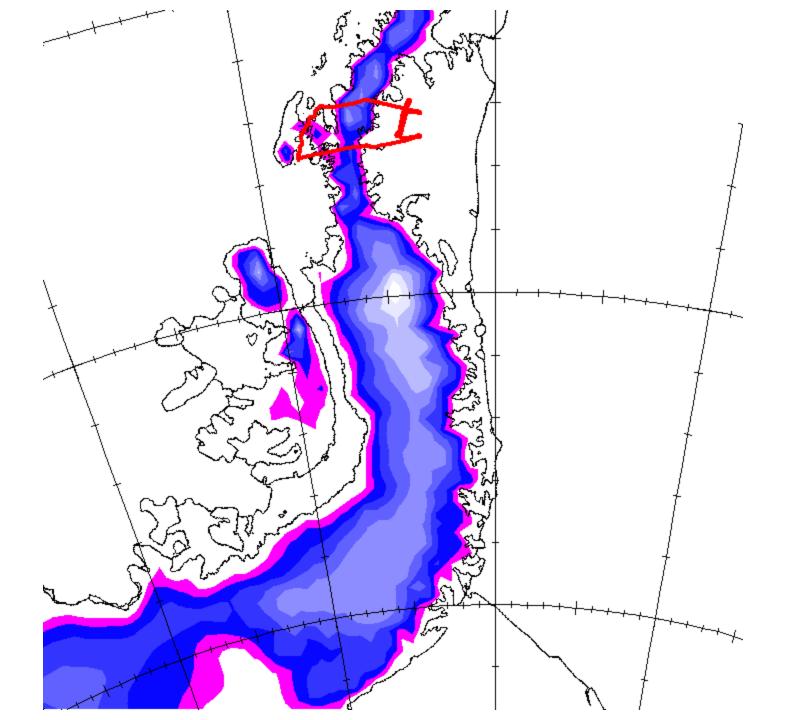


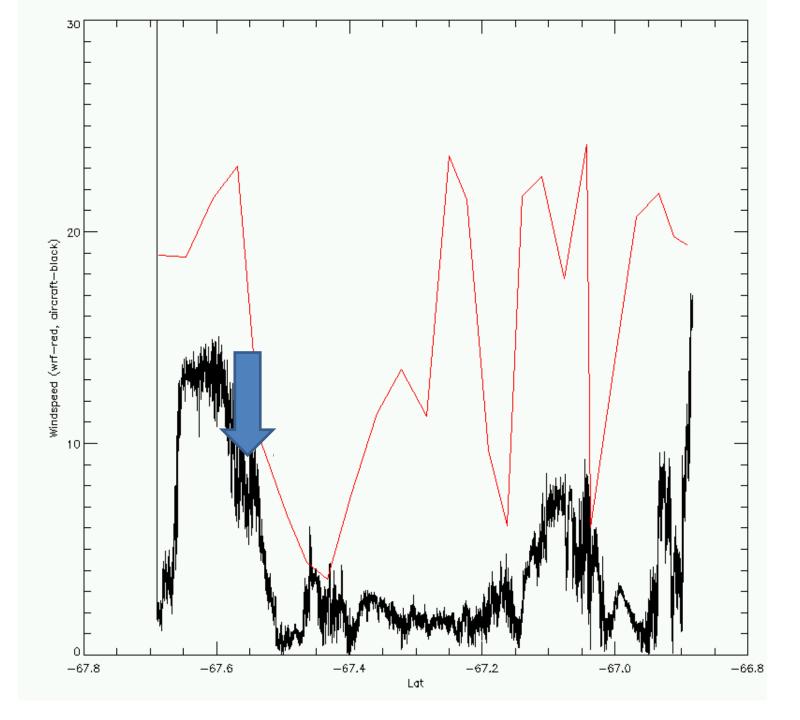
4km UKMO











Conclusions

- Cross Peninsula flow is strongly influenced by the detailed topography
- Jets not resolved by low resolution models (4km and above)
- 1.5km models do resolve the jets, but there are still problems.