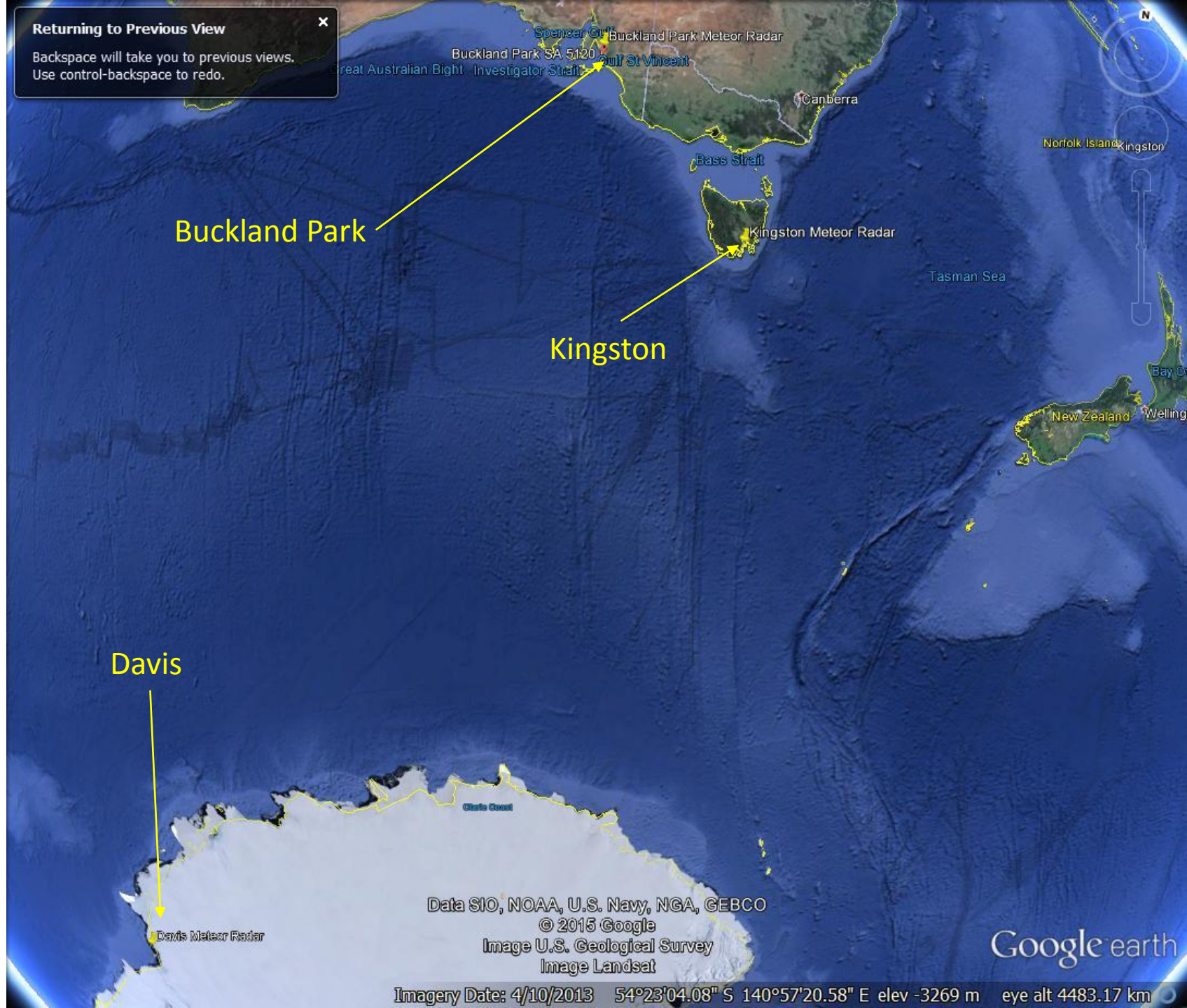


# Meteor Radar observations around DEEPWAVE

Iain Reid, Damian Murphy, Andrew Klekociuk,  
Andrew Spargo, Andrew MacKinnon, Chris Adami, Peter Love

Radar Sites included in the tidal and wind analysis.

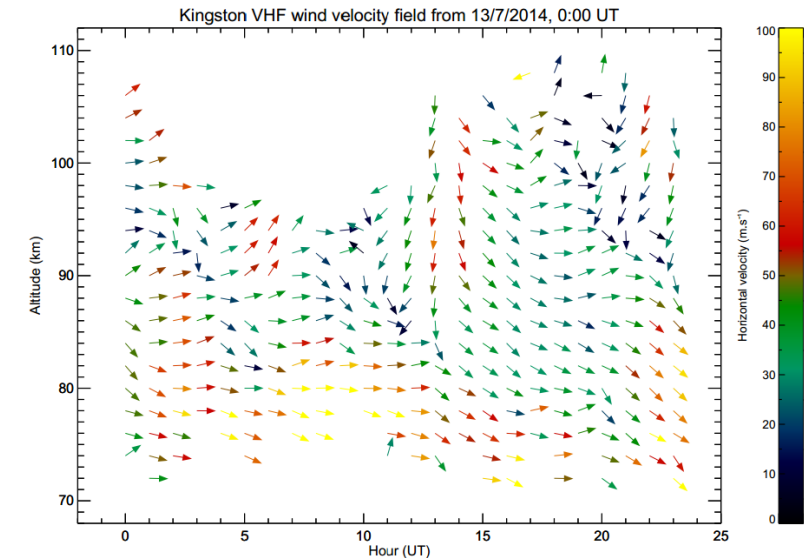
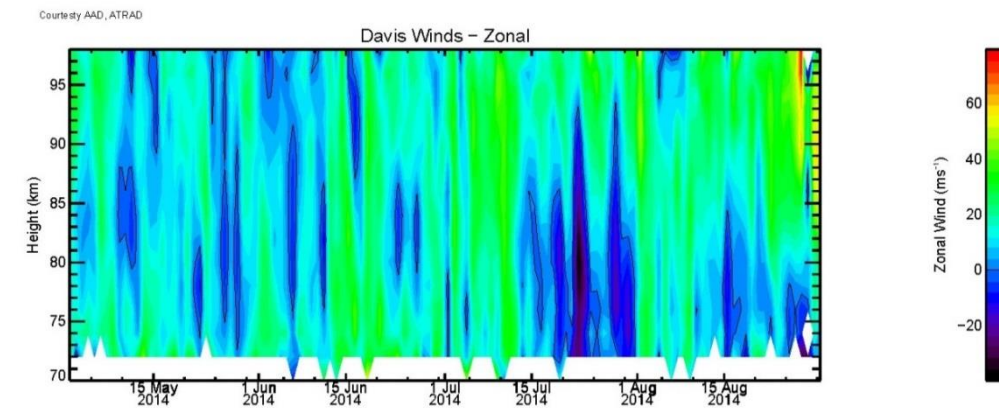
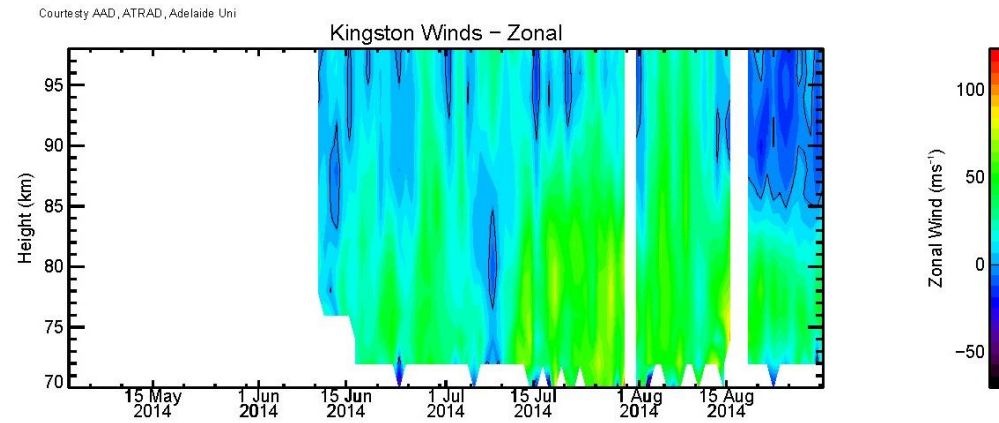
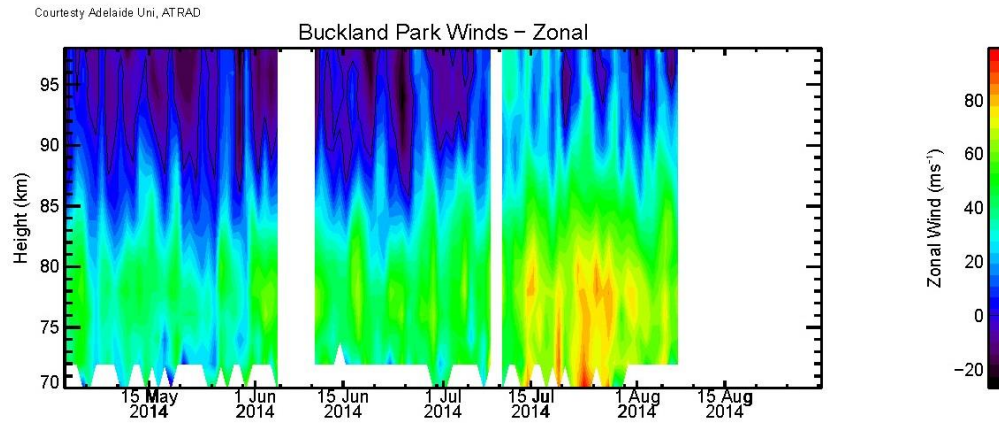
A Rayleigh Lidar operated at Kingston for some nights.



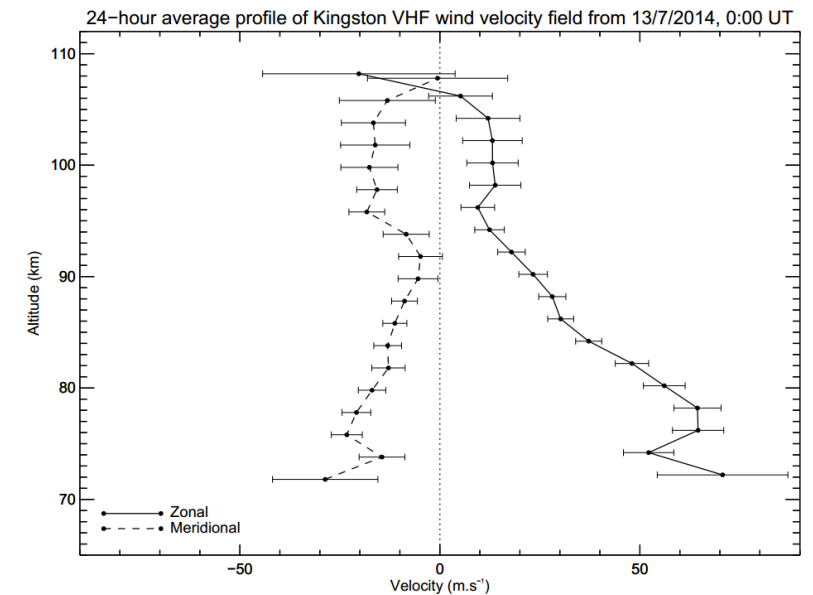
Wind contour plots show availability of data during DEEPWAVE. Data for the month before and after DEEPWAVE have been included where available.

Tidal analysis has been applied for these data as well using a running 4-day window.

All radar data are available on the DEEPWAVE EOL data repository.



Data coverage over a single example day



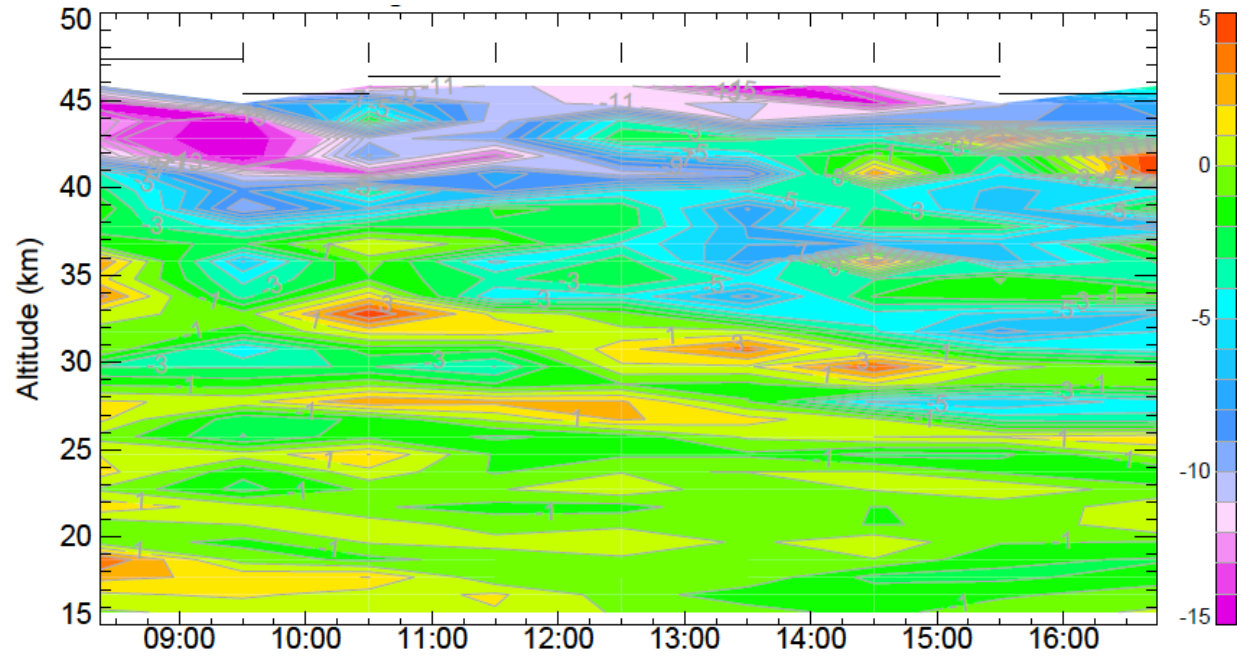
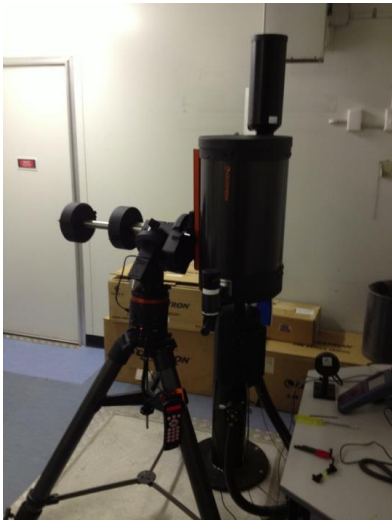
Example 24-hour mean profile



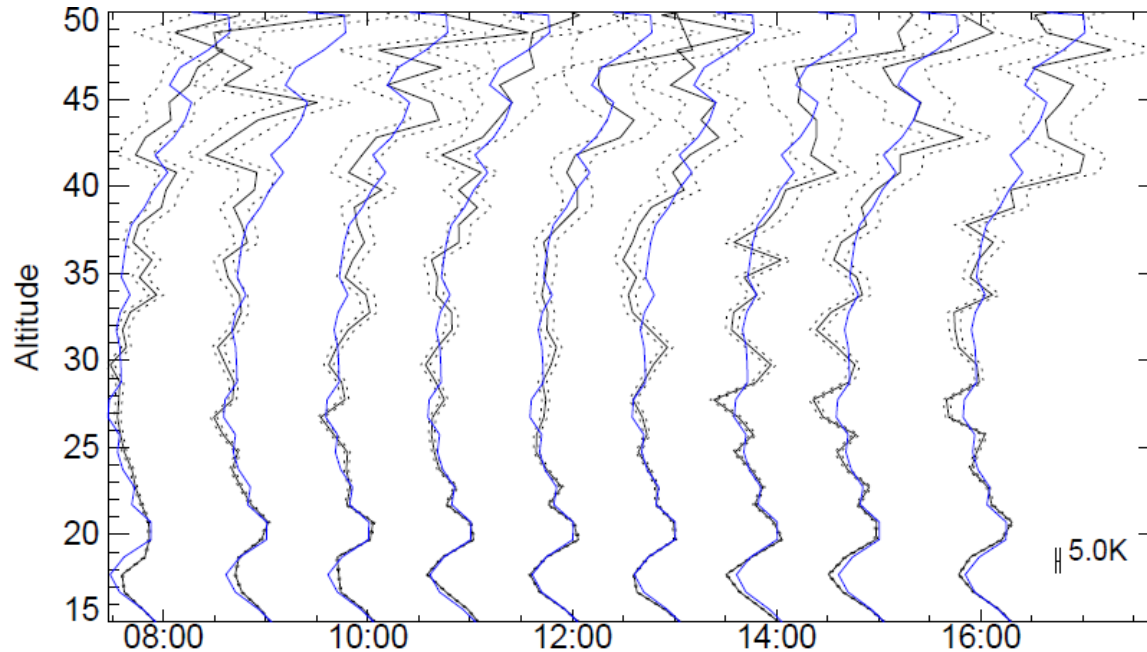
Kingston Rayleigh Lidar data available for 18,20 and 30 June 2014

Temperature data for 30 June shown at right (1 hour x 2 km average profiles). Times are in UT.

Note that temperatures below ~30 km are biased by aerosol backscatter.



Temperature difference from nightly mean (K). The upper altitude of each profile is 5 km below the seeding altitude (seeding with Aura/MLS v3.3).



Individual temperature profiles (black), with nightly mean (blue) and +/- 1 standard error (dashed).