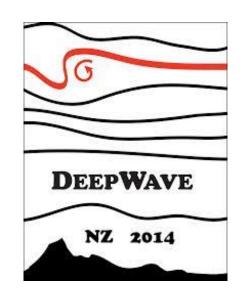
Hokitika Integrated Sounding System

Bill Brown NCAR / EOL



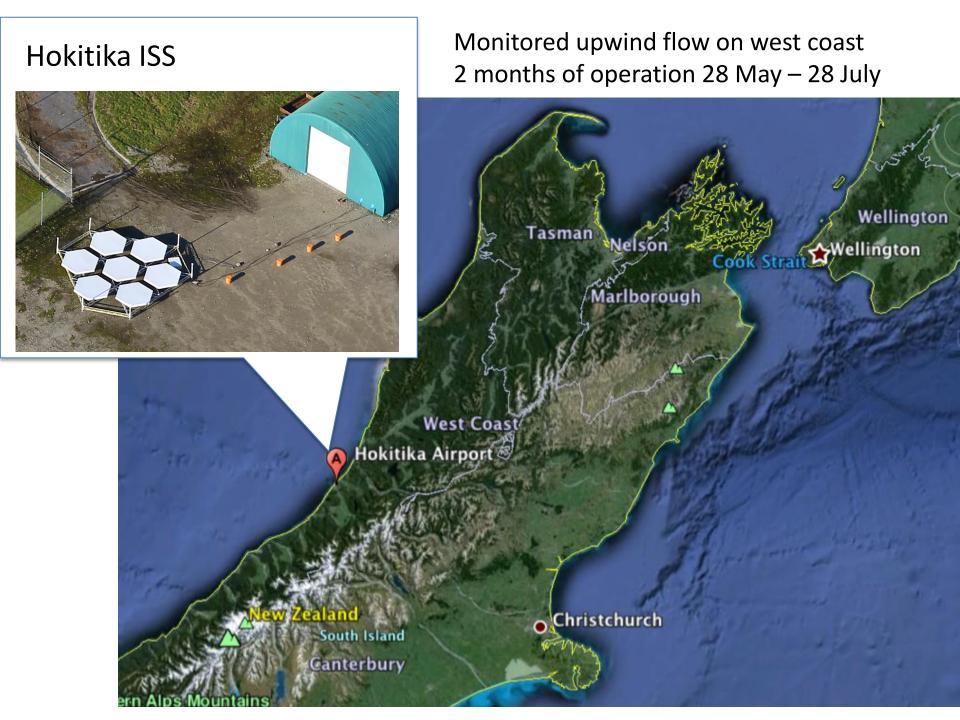


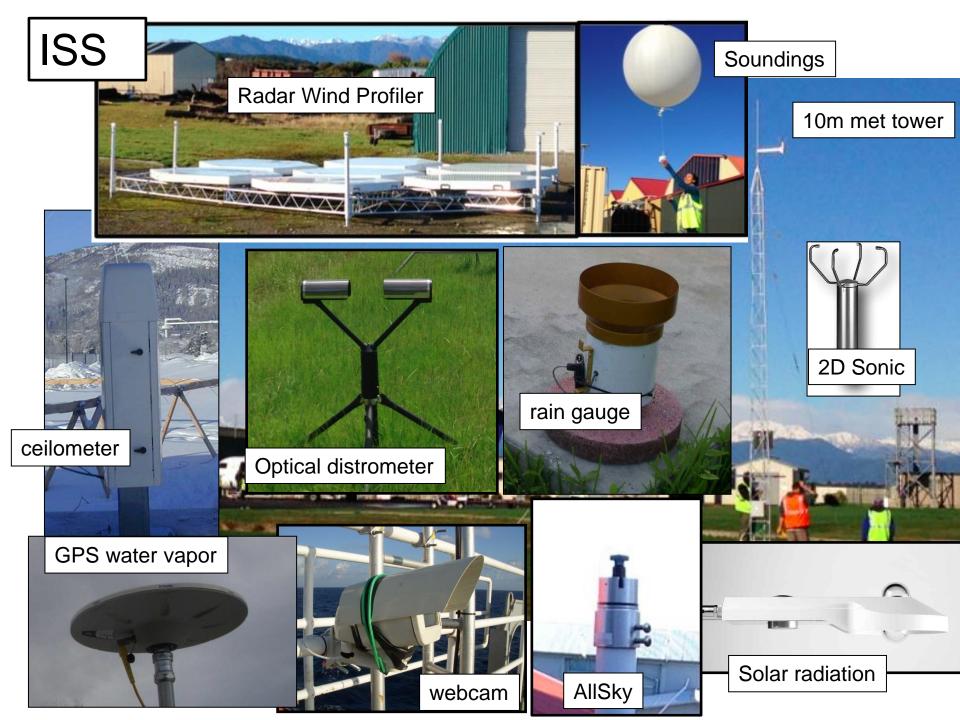






DEEPWAVE Workshop
23 October 2014





Soundings

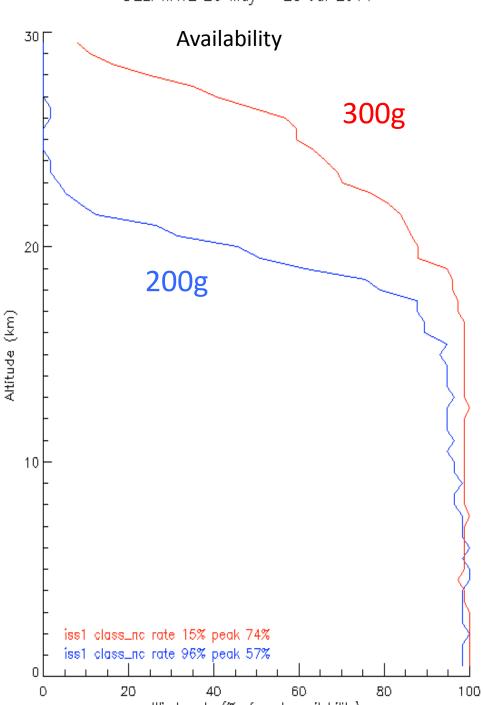
146 Soundings

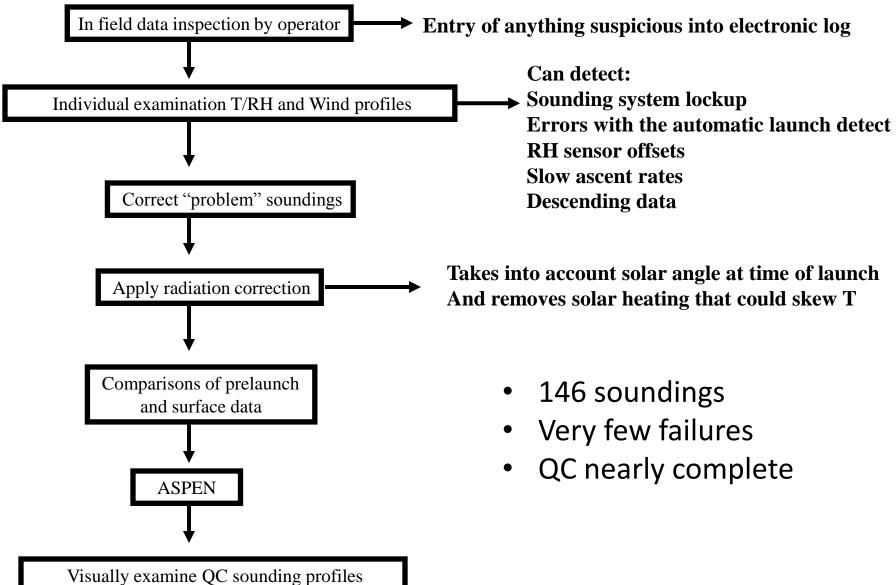
Daily soundings: 65 200g, typ 19km

IOP soundings: 80 300g, typ 24km



Thank you to the students!





Radar Wind Profiler

- 449 MHz Modular Wind Profiler
- Added modules to increase power and sensitivity to get to higher altitudes and above the coastal jet
- Produced almost continuous winds at mountain top level

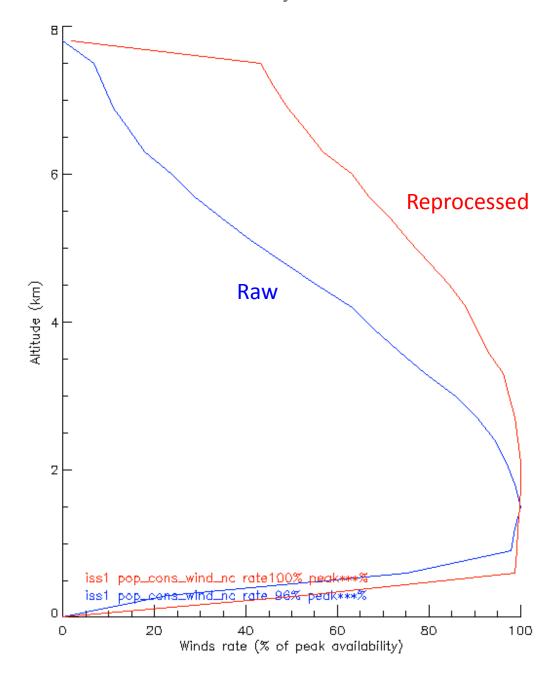


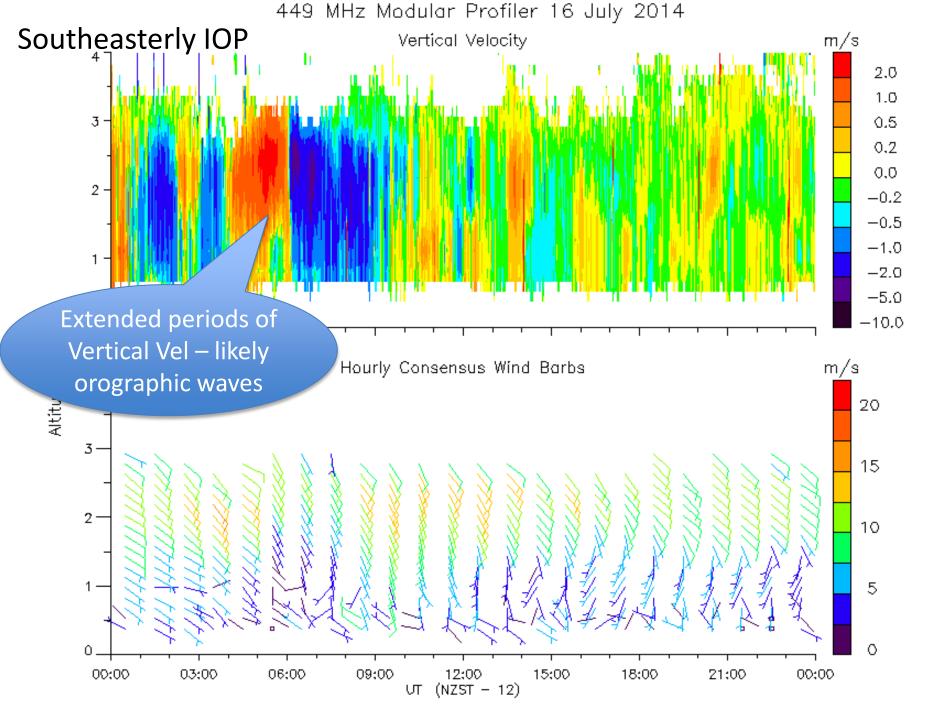
Wind Profiler Coverage

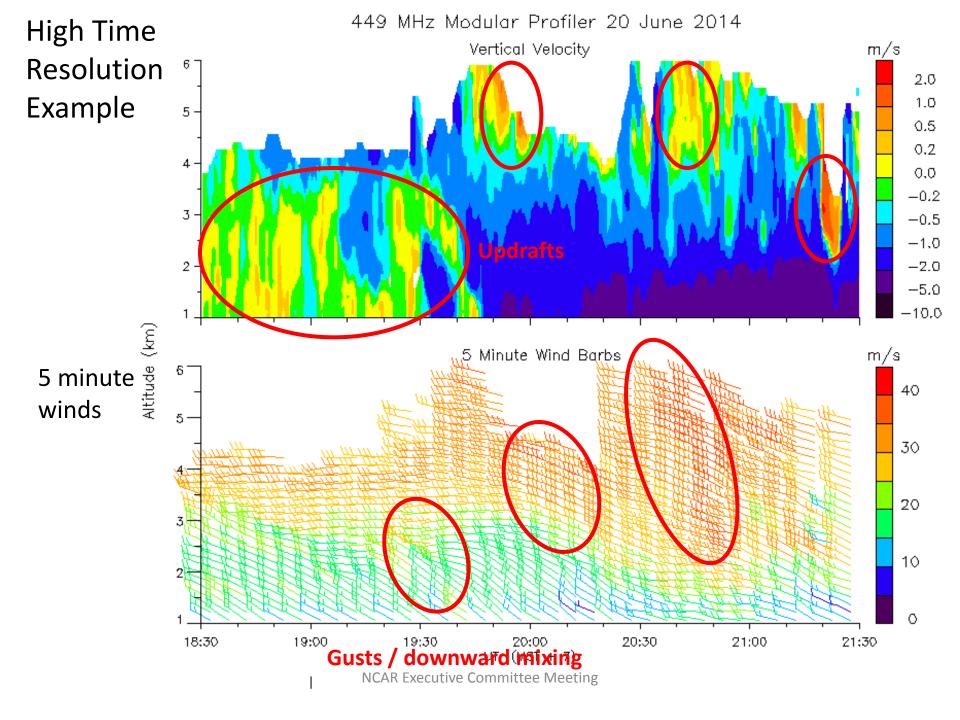
- Real-time processing gave approx 4km altitude coverage
- Winds agreed with soundings to approx 2 m/s
- Reprocessing data
 - extra altitude, approx

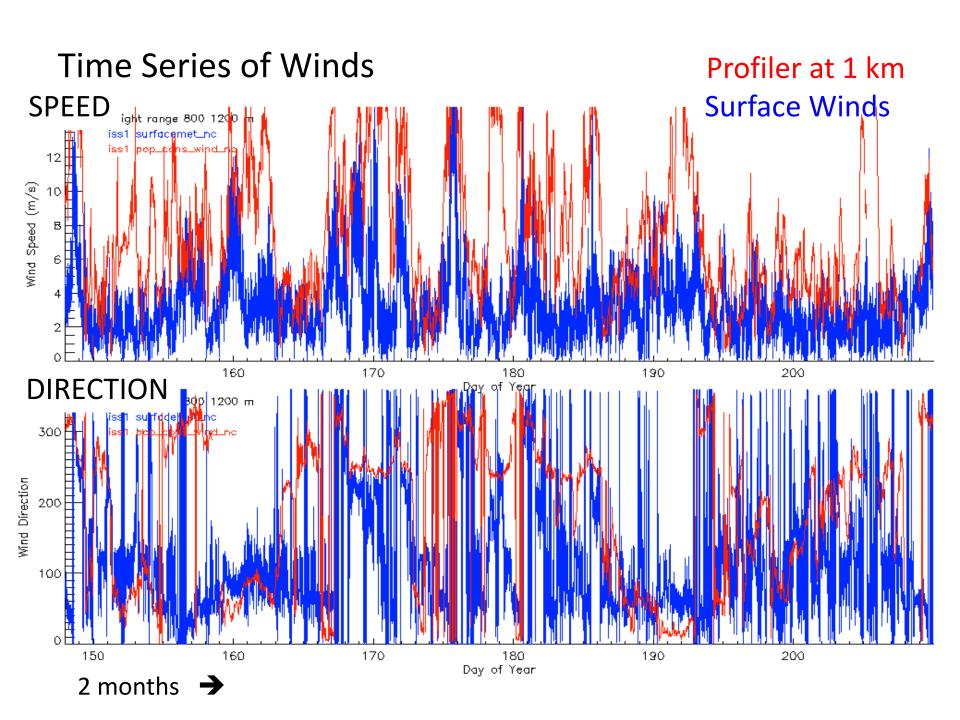
5km

- improved agreement with sondes









Summary

- 2 months of operation (28 May 28 July)
- Soundings, radar wind profiler, surface obs, GPS WV, web cameras, ceilometer
- Soundings
 - 146 soundings
 - QC almost complete
- Wind profiler
 - Reprocessing data (4 TB)
 - Fine scale and large scale features







