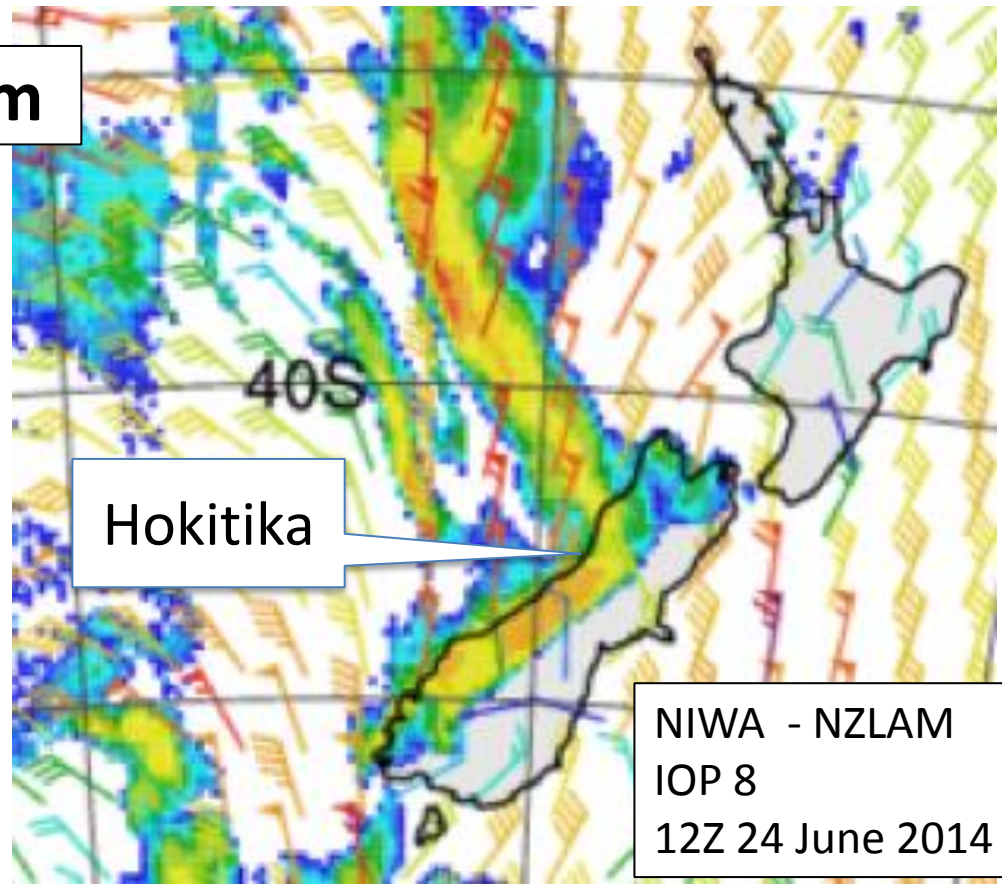


# Integrated Sounding System

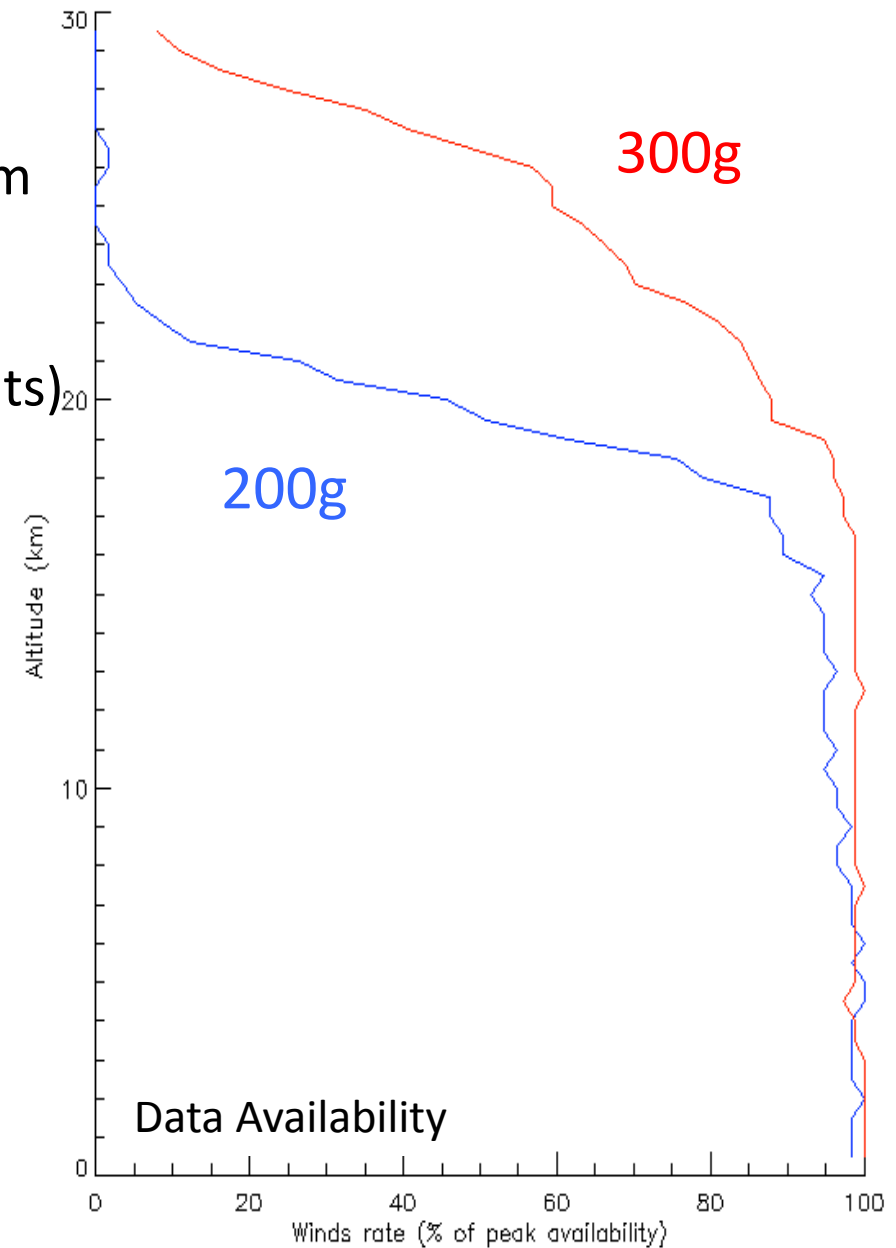
- Soundings, wind profiler, surface met
- Monitored upwind flow on west coast
- 2 months of operation 28 May – 28 July

Bill Brown  
NCAR / EOL



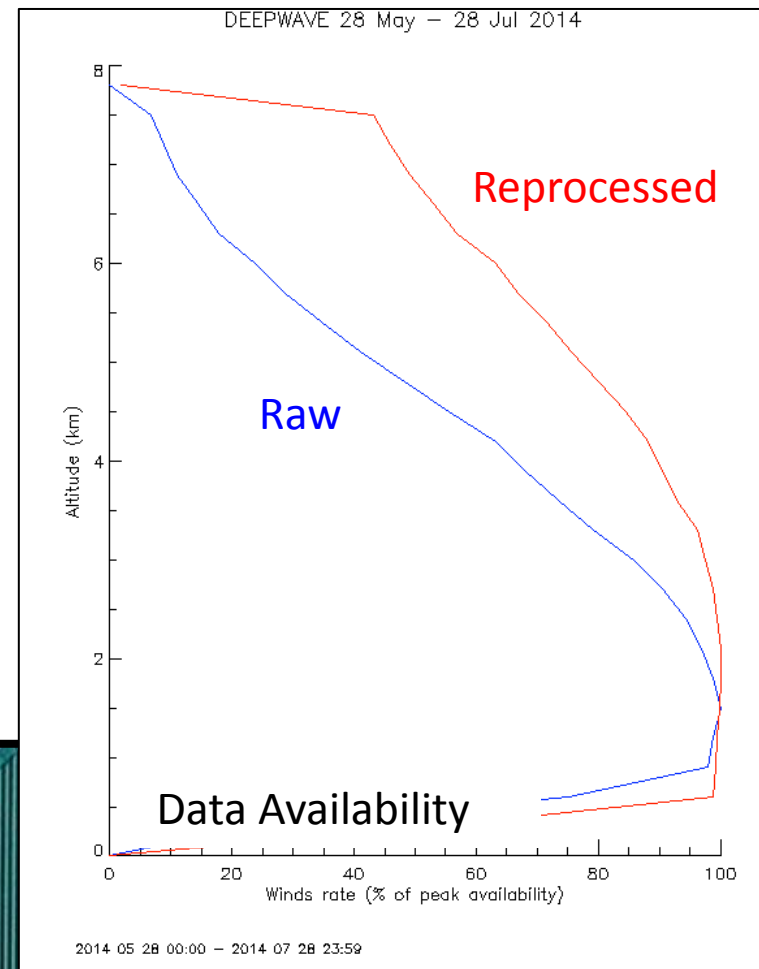
# Soundings

- 145 Soundings
- Daily soundings: 65 200g, typ 19km
- IOP soundings: 80 300g, typ 24km
- Challenging conditions
- 20 helpers (mix of US & NZ students)
- QC almost complete
- Few problems



# Radar Wind Profiler

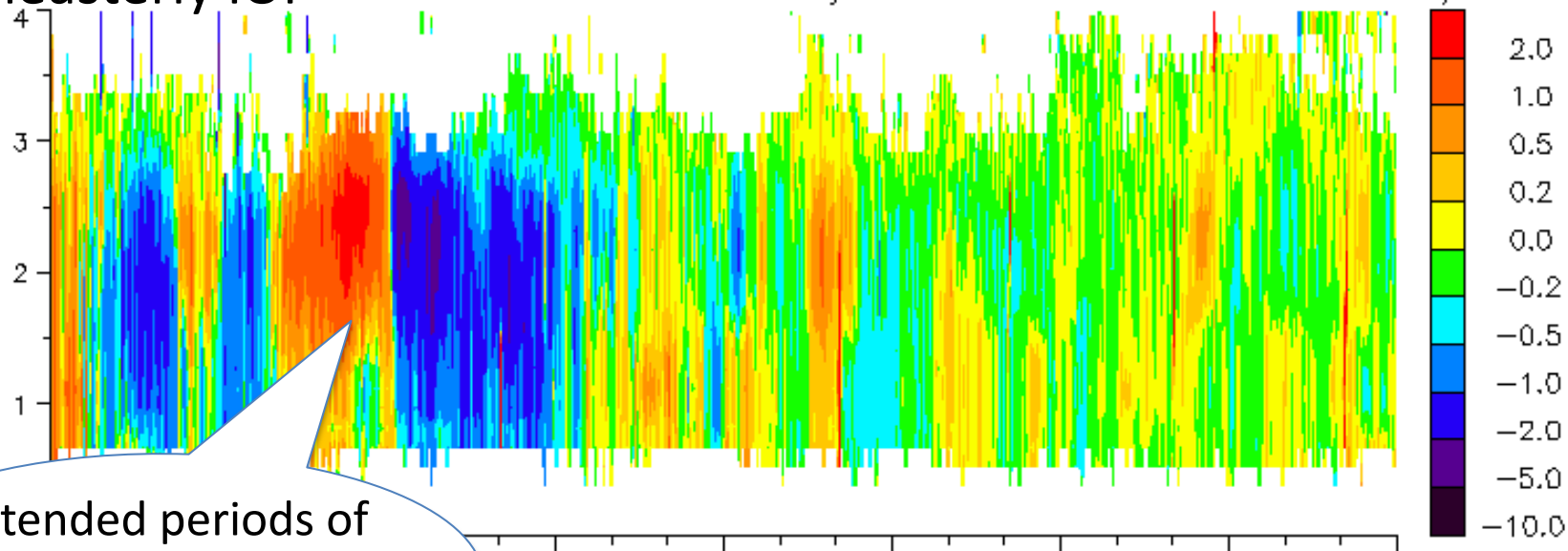
- 449 MHz Modular Wind Profiler
- Added modules to increase power and sensitivity to get to higher altitudes
- 95% coverage to mountain top level
- Good agreement with radiosondes
- Winds used to guide GV flight ops



## Southeasterly IOP

Vertical Velocity

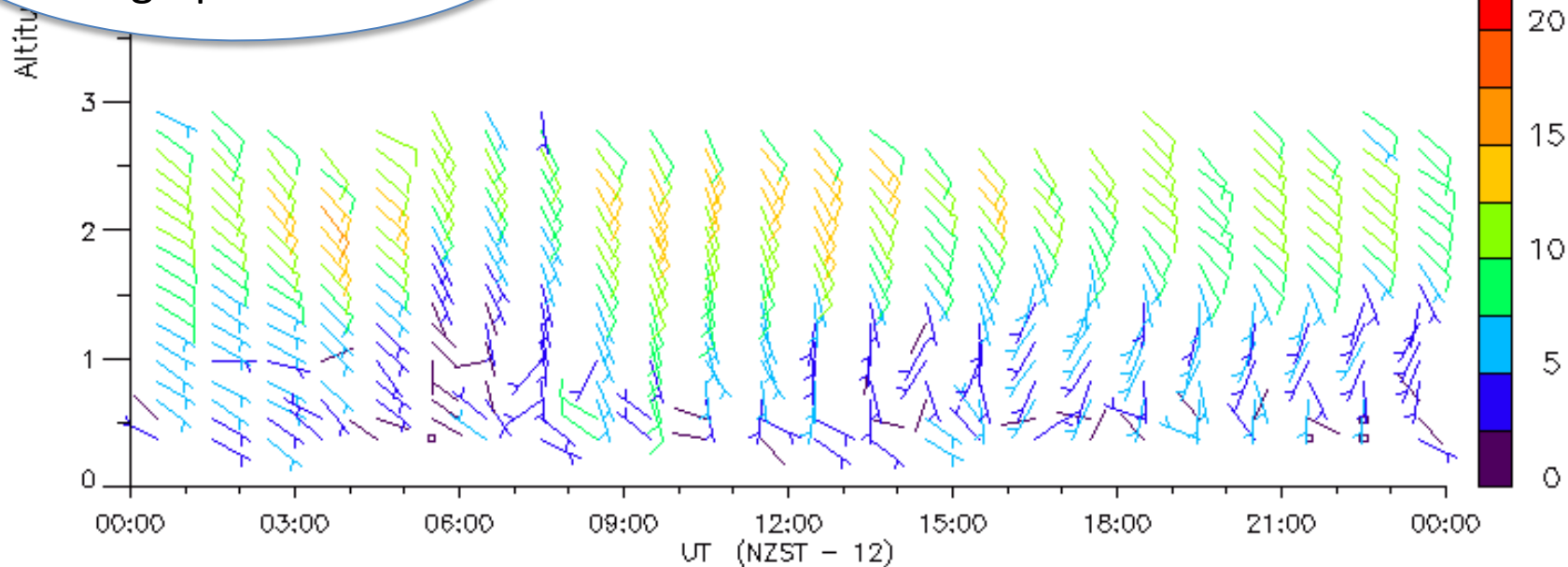
m/s



Extended periods of  
Vertical Vel – likely  
orographic waves

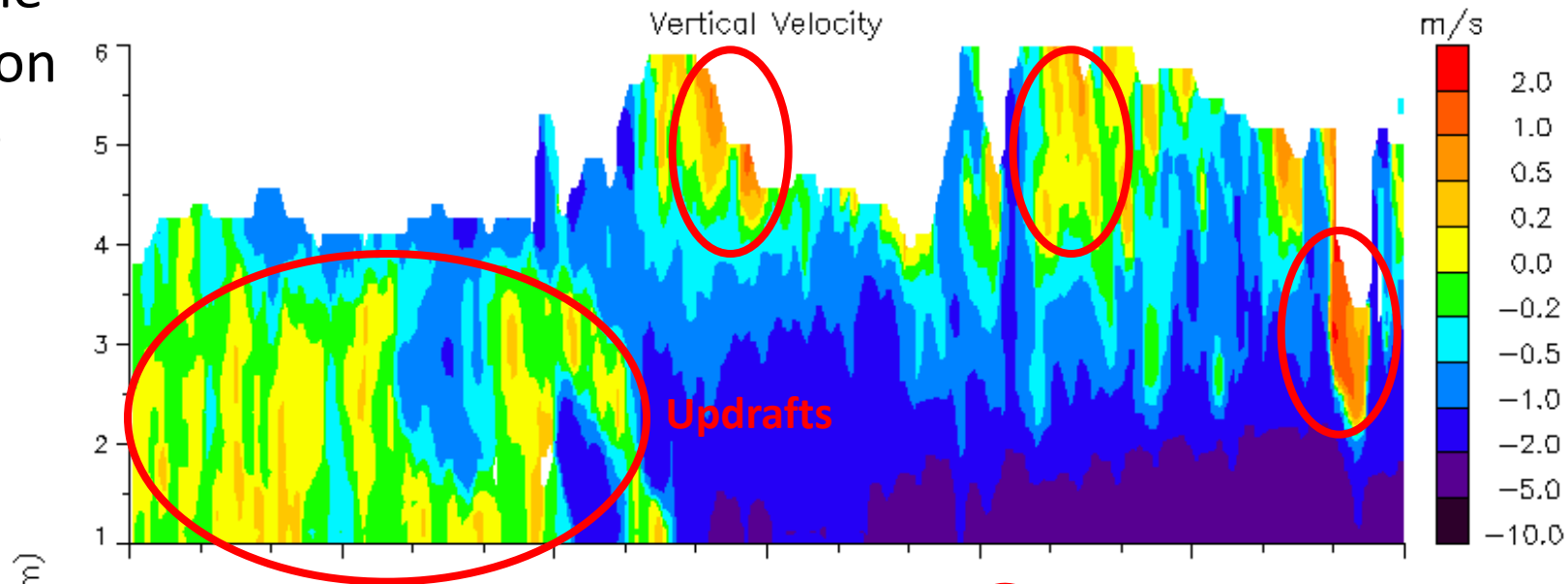
Hourly Consensus Wind Barbs

m/s

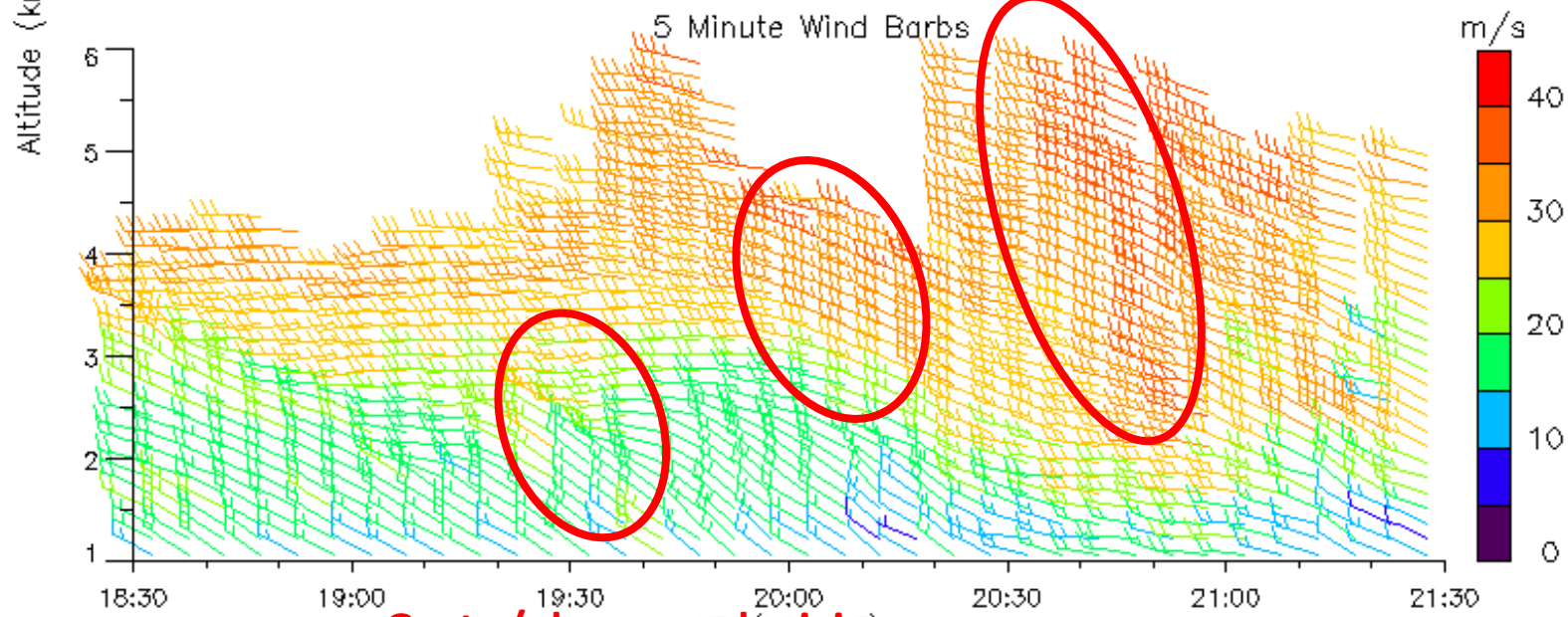


# High Time Resolution Example

449 MHz Modular Profiler 20 June 2014



## 5 minute winds



# ISS Summary

- 2 months of operation
- Soundings
  - 145 radiosondes
  - QC almost complete
- Profiler
  - First international deployment
  - Reprocessing and QC
  - 95% coverage to mountain top level
- Logistics
  - Shipping delays
  - Inclement weather challenges
  - Student logistics

