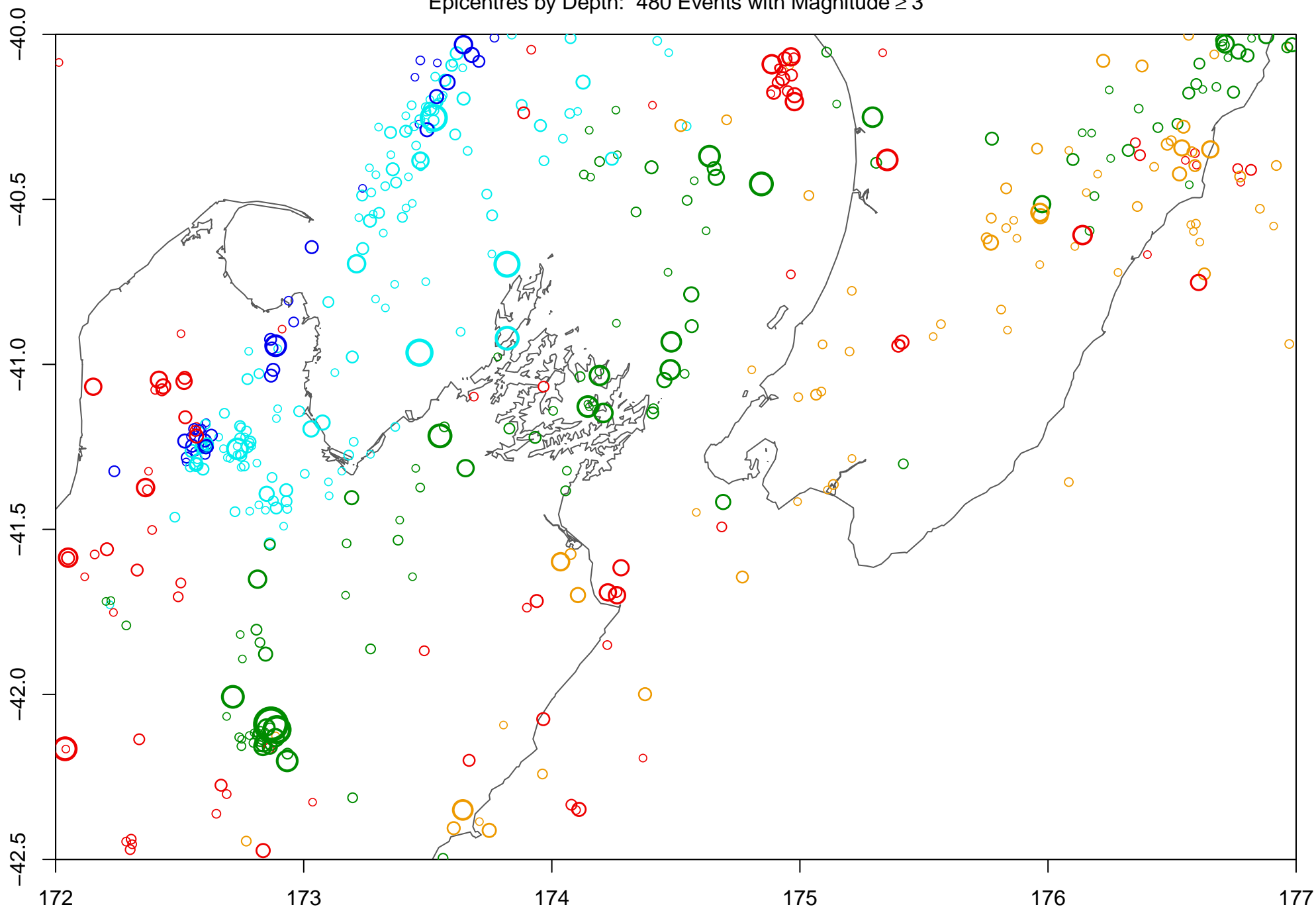


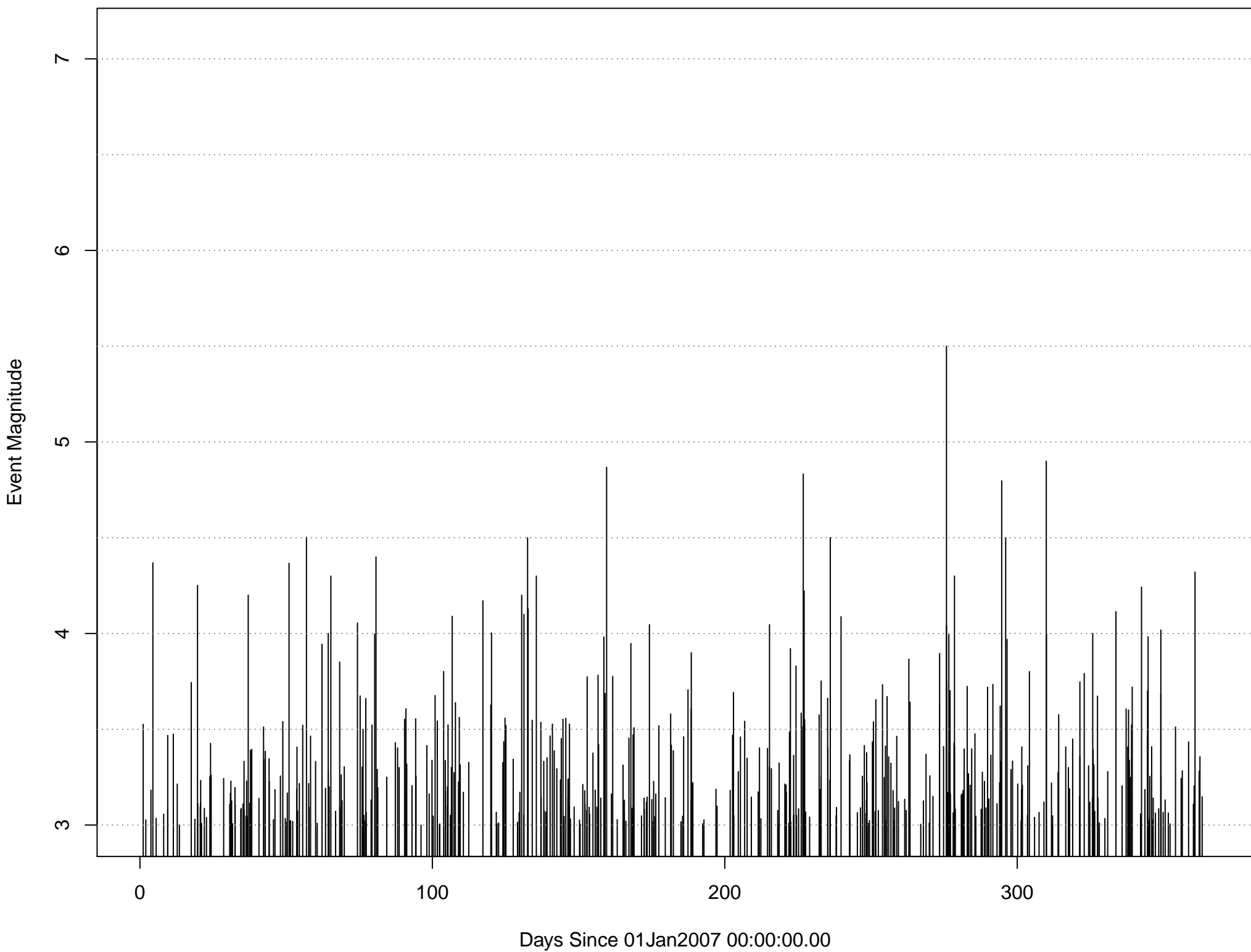
# Catalogued Events in Central NZ During 2007

Epcentres by Depth: 480 Events with Magnitude  $\geq 3$



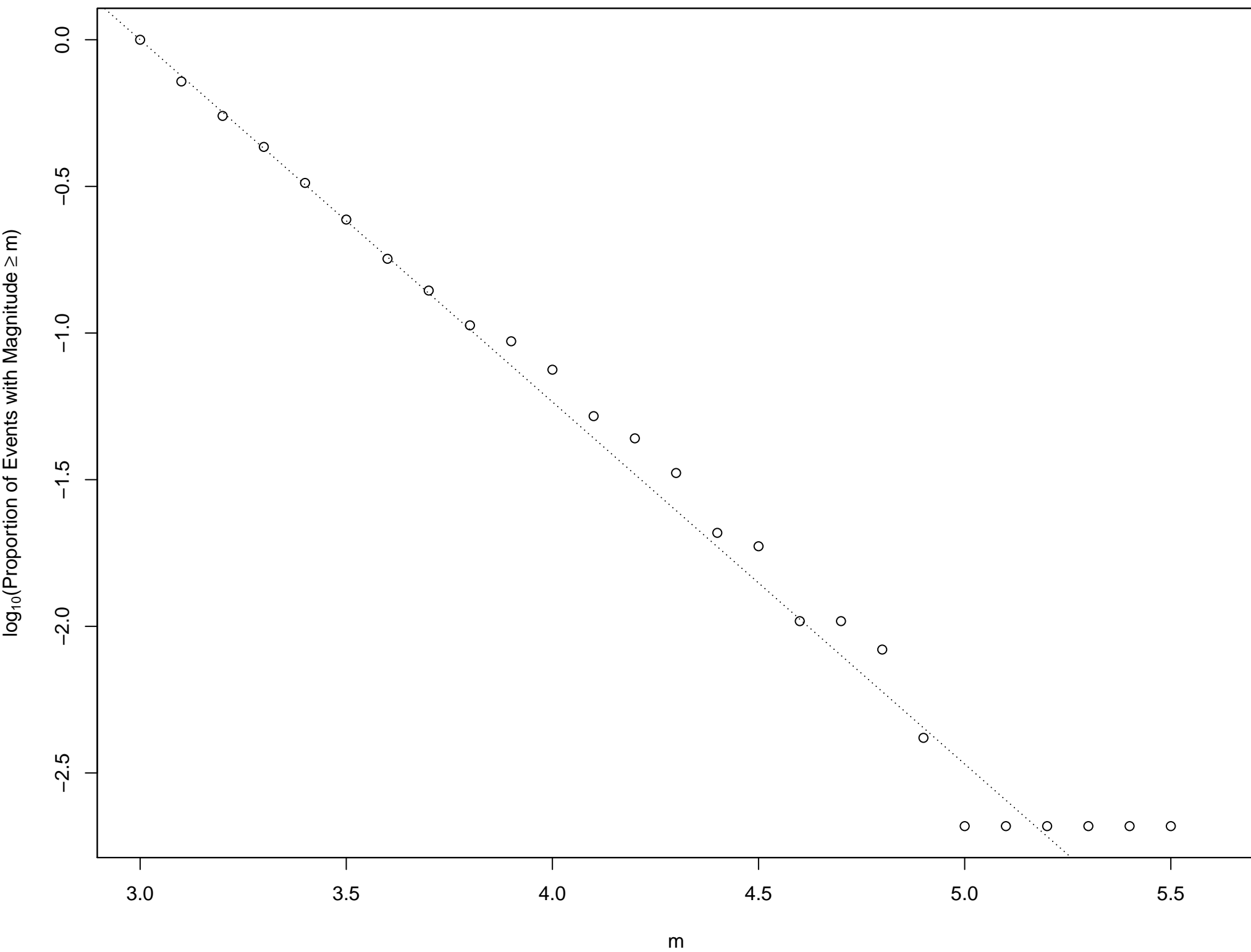
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2007



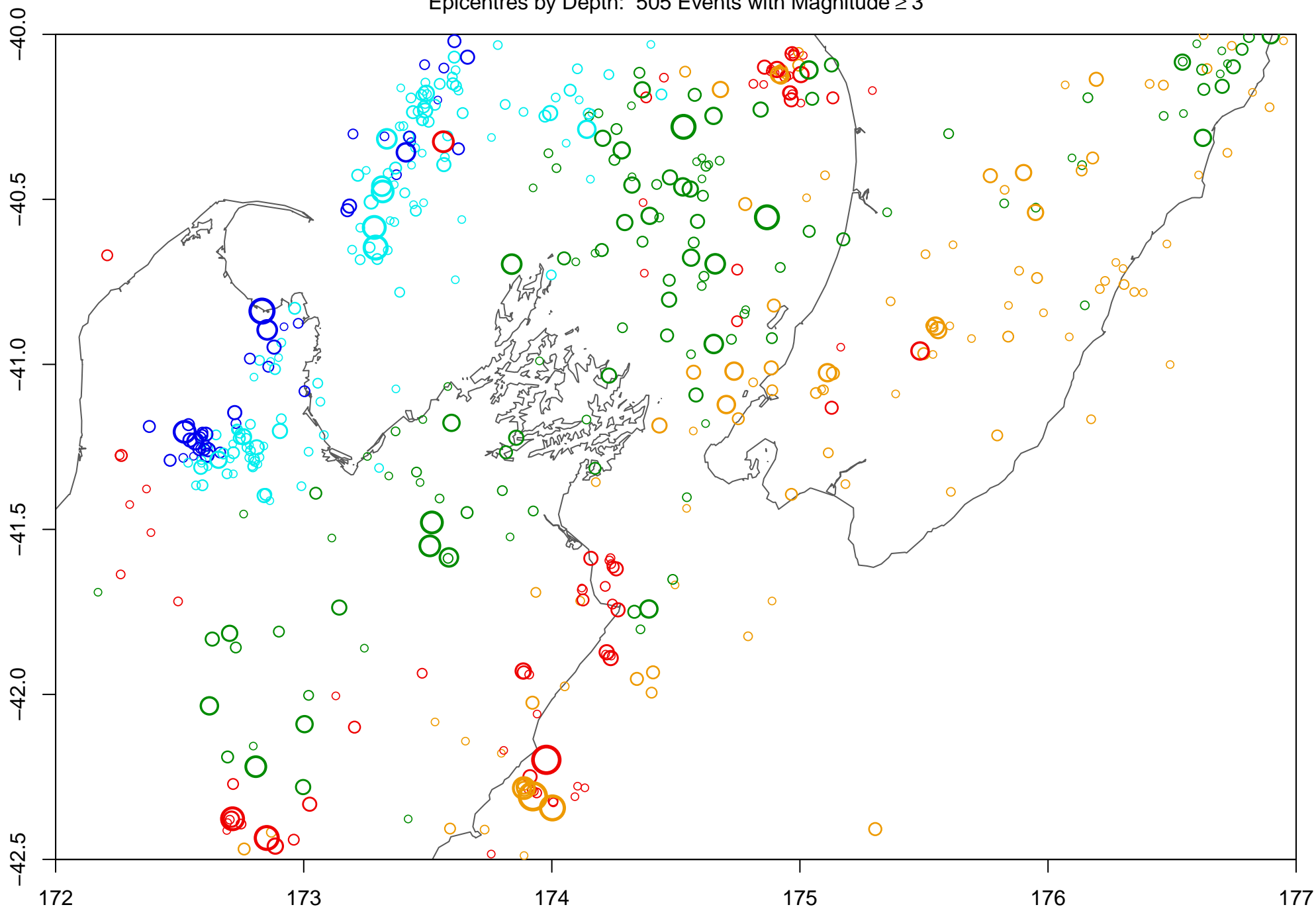
# Catalogued Events in Central NZ During 2007

Gutenberg–Richter Relationship:  $b$ -value = 1.23



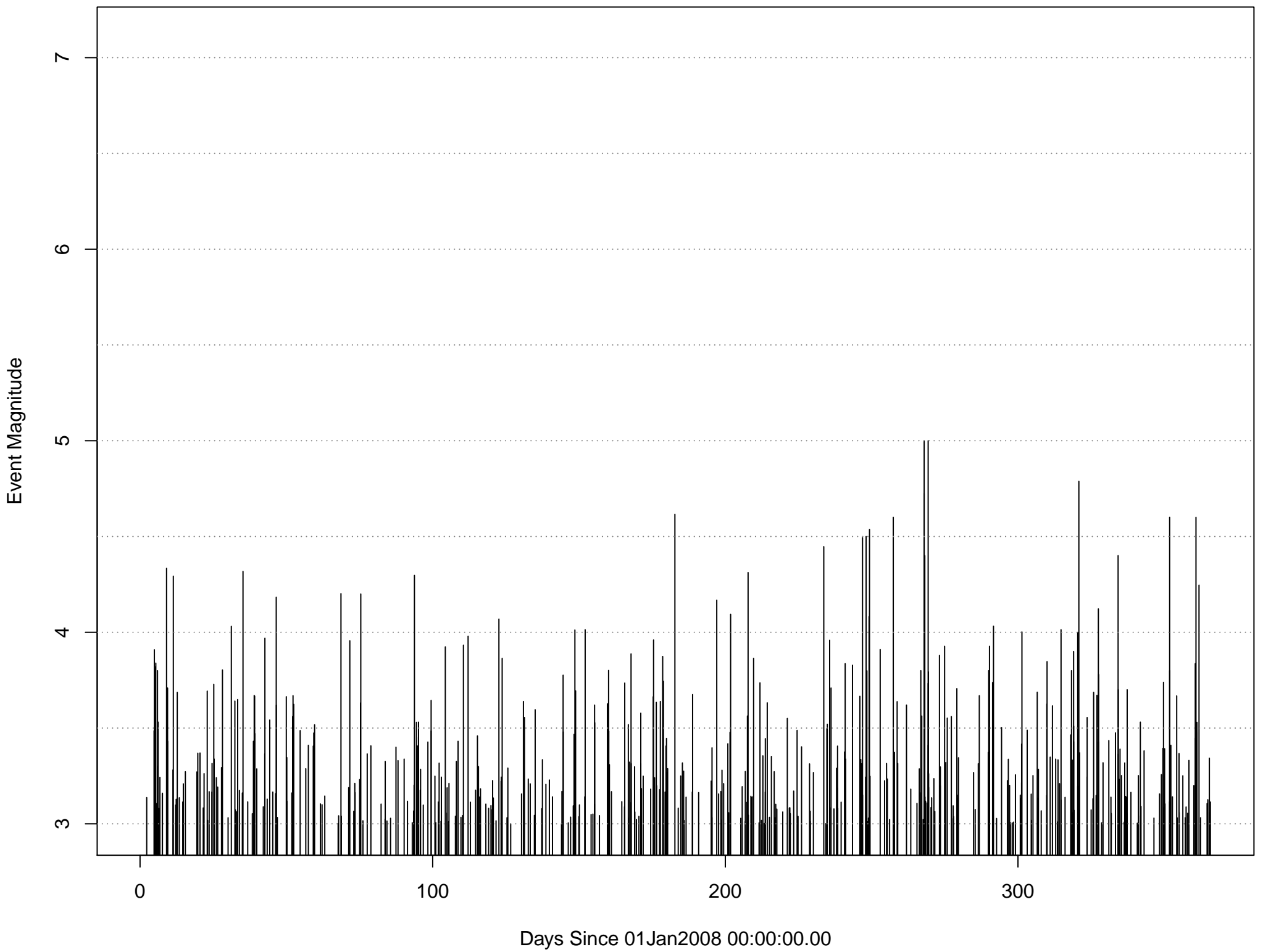
# Catalogued Events in Central NZ During 2008

Epcentres by Depth: 505 Events with Magnitude  $\geq 3$



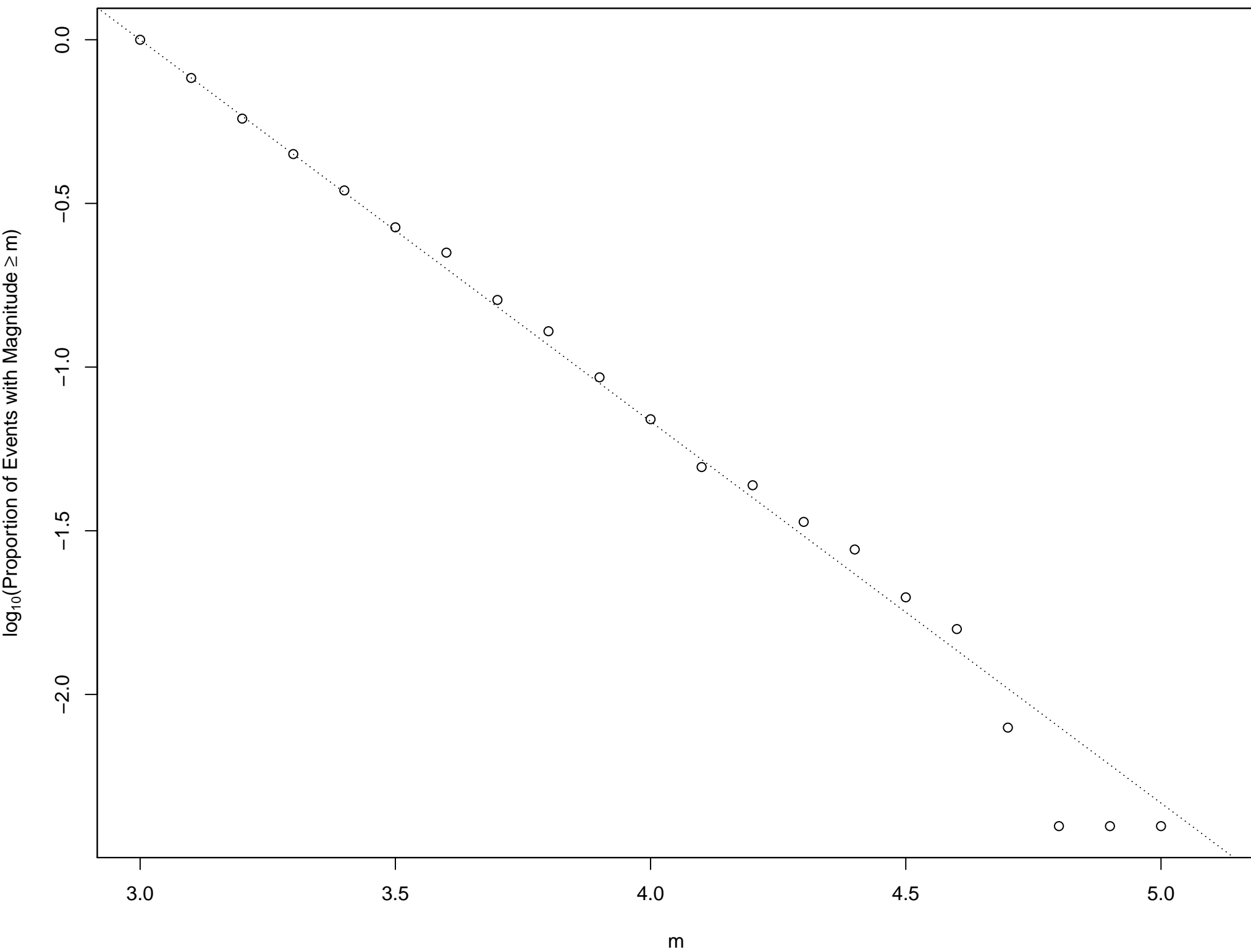
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2008



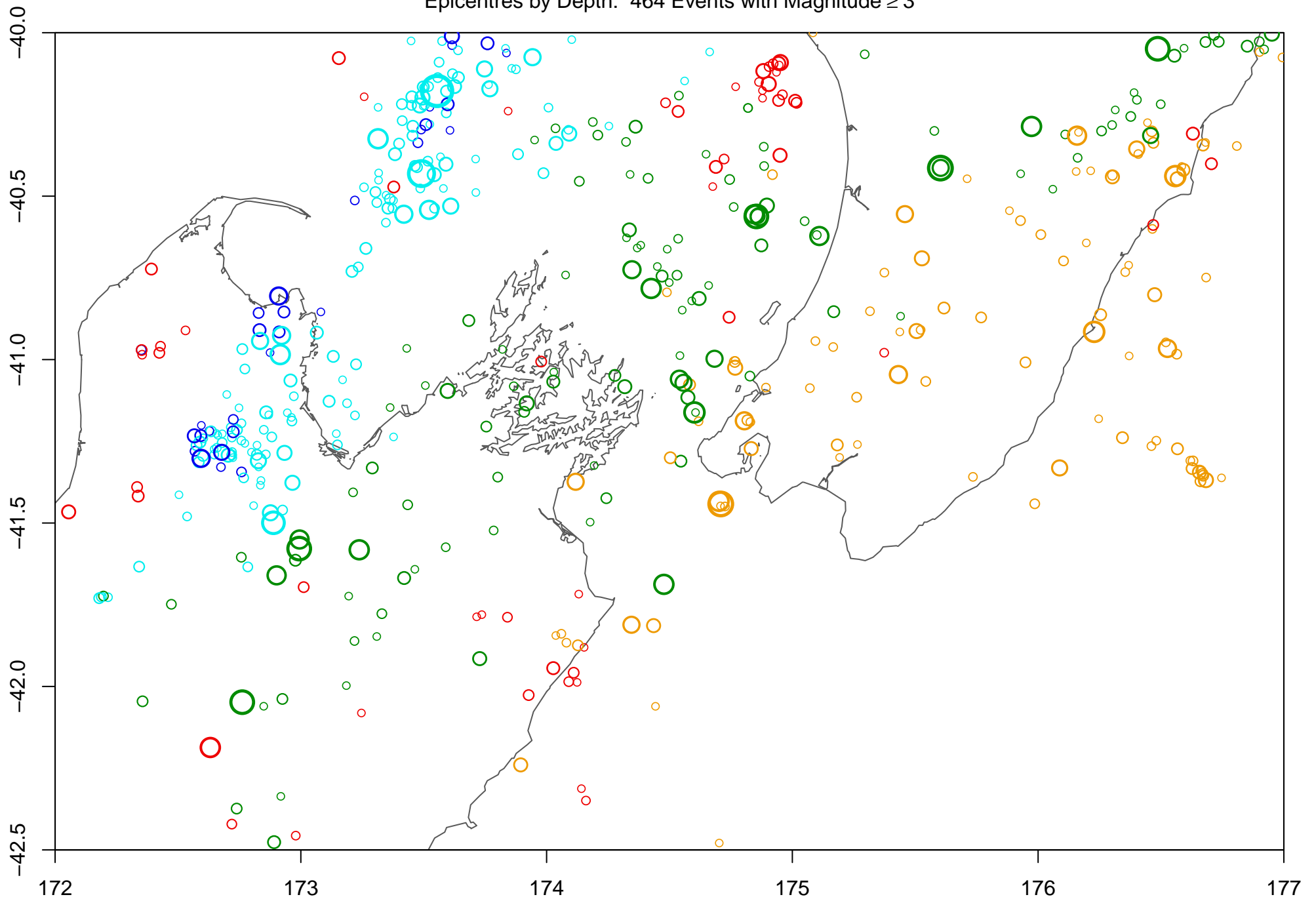
# Catalogued Events in Central NZ During 2008

Gutenberg–Richter Relationship:  $b$ -value = 1.17



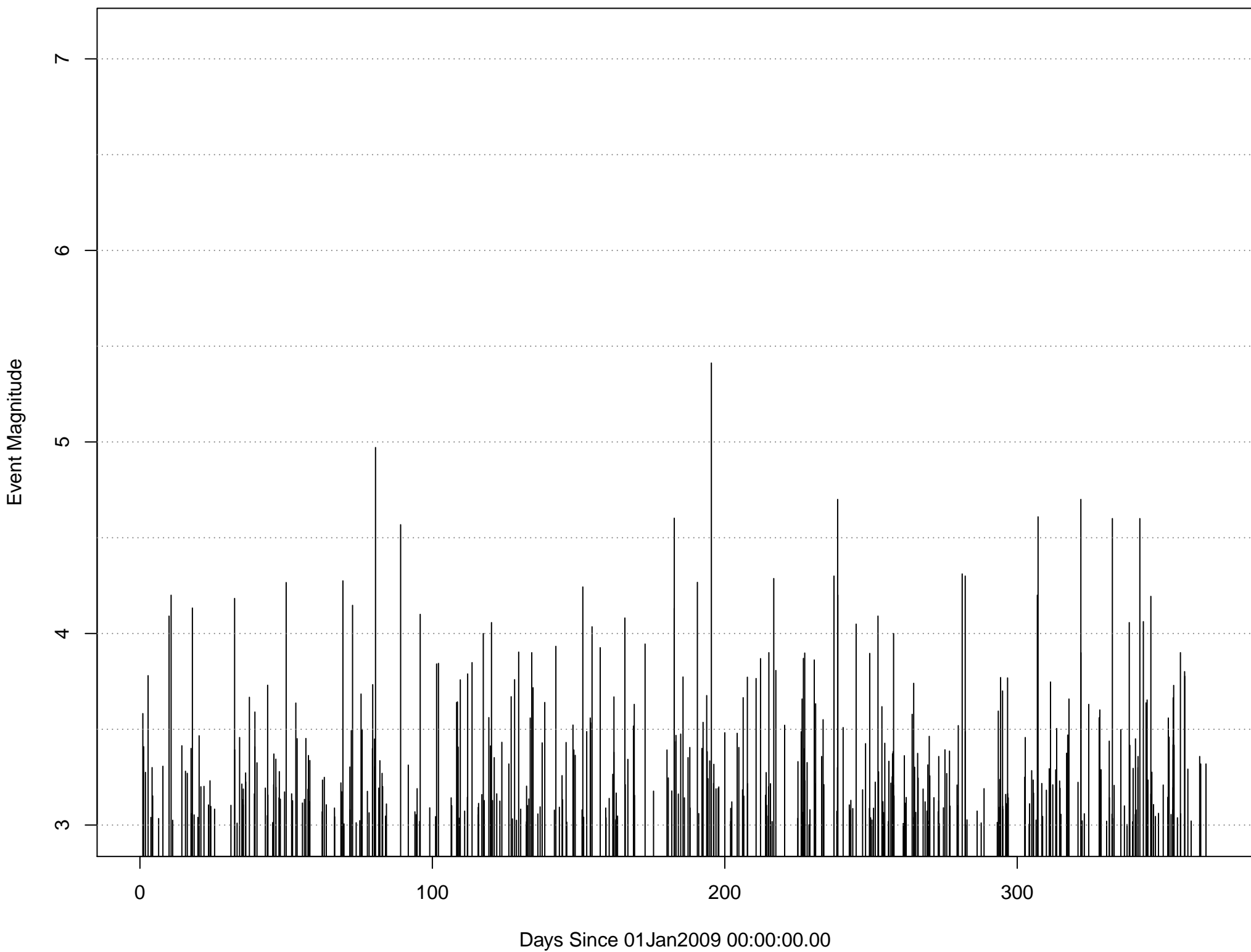
# Catalogued Events in Central NZ During 2009

Epicentres by Depth: 464 Events with Magnitude  $\geq 3$



Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

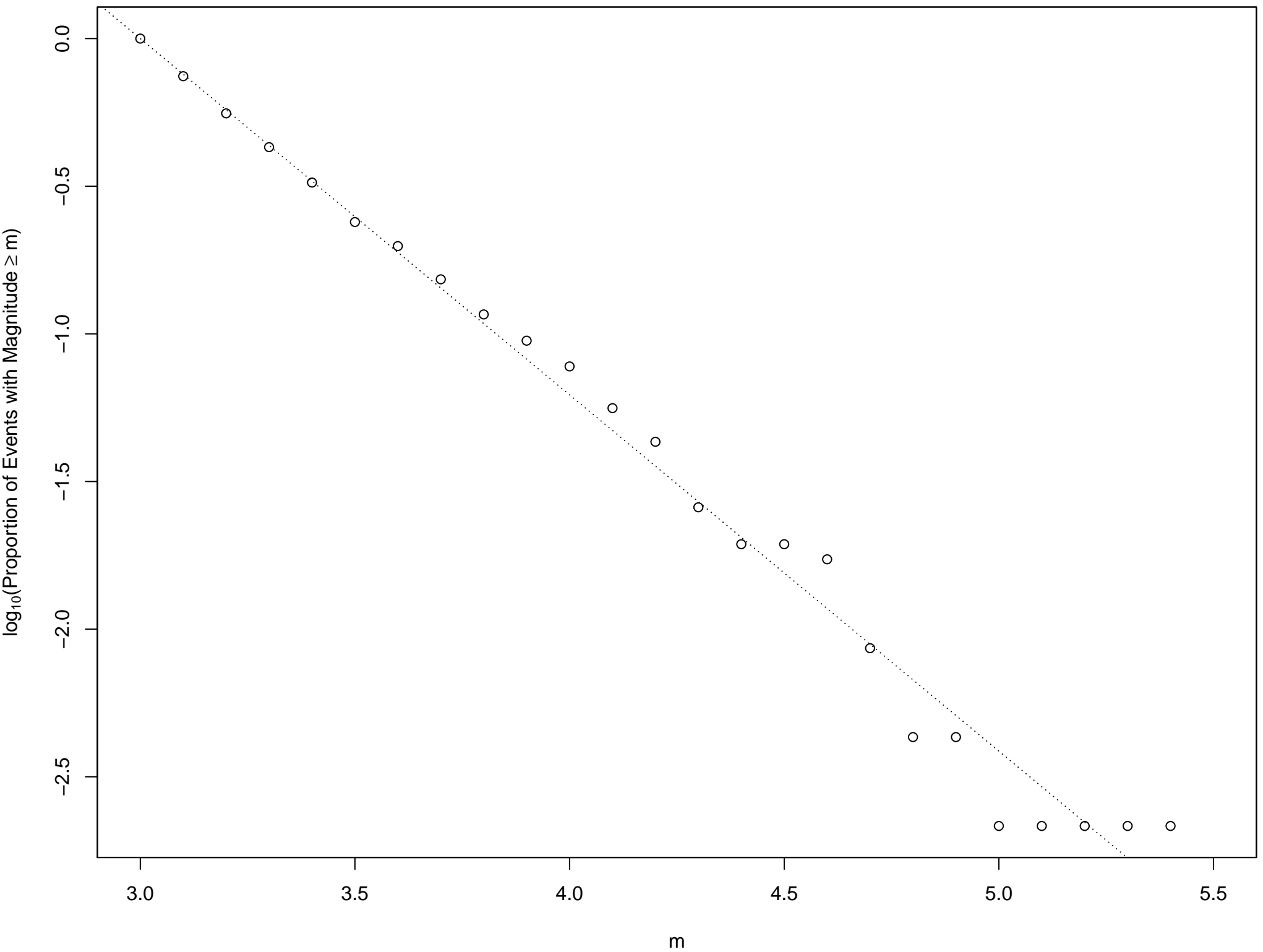
# Catalogued Events in Central NZ During 2009





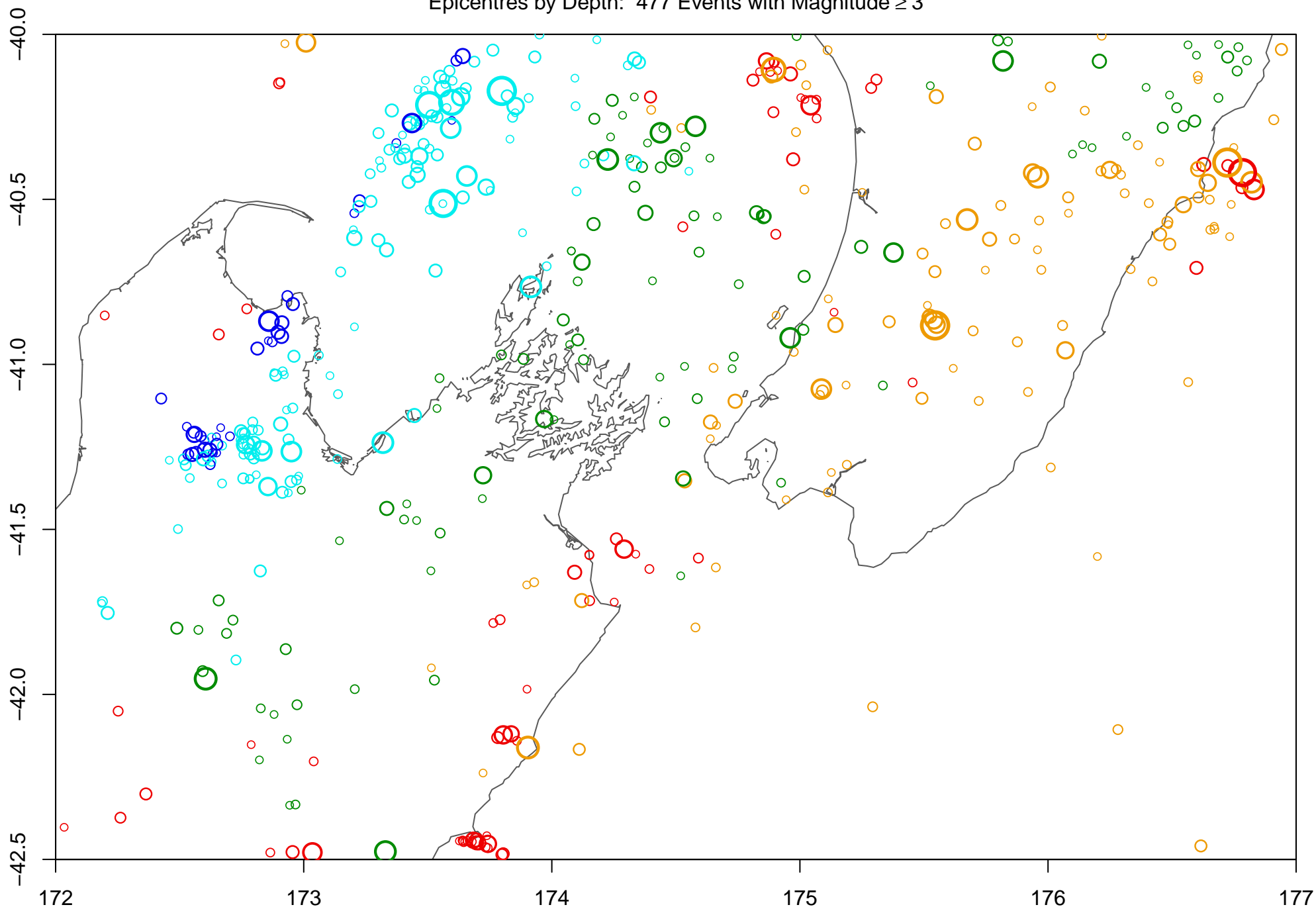
# Catalogued Events in Central NZ During 2009

Gutenberg–Richter Relationship: b-value = 1.21



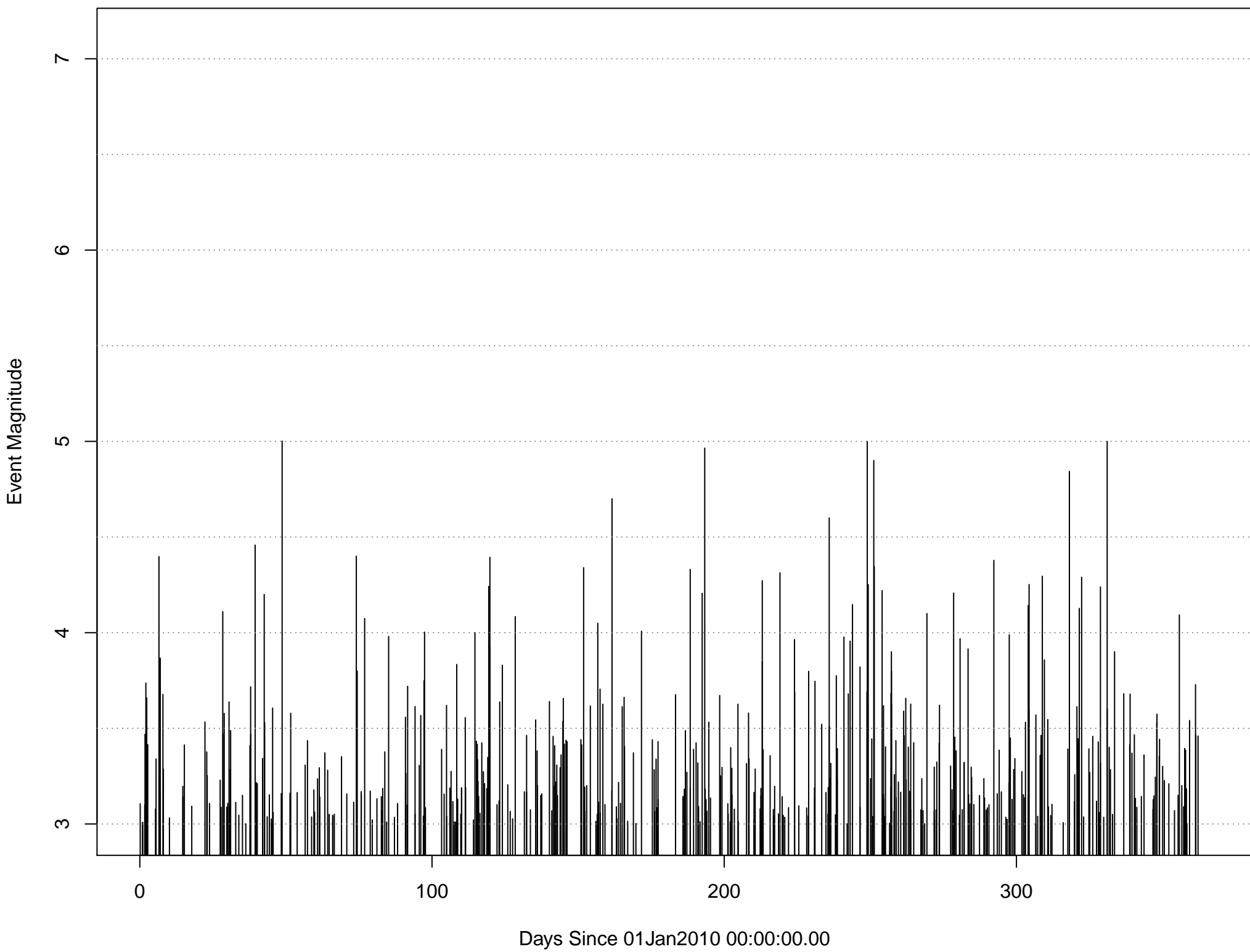
# Catalogued Events in Central NZ During 2010

Epicentres by Depth: 477 Events with Magnitude  $\geq 3$



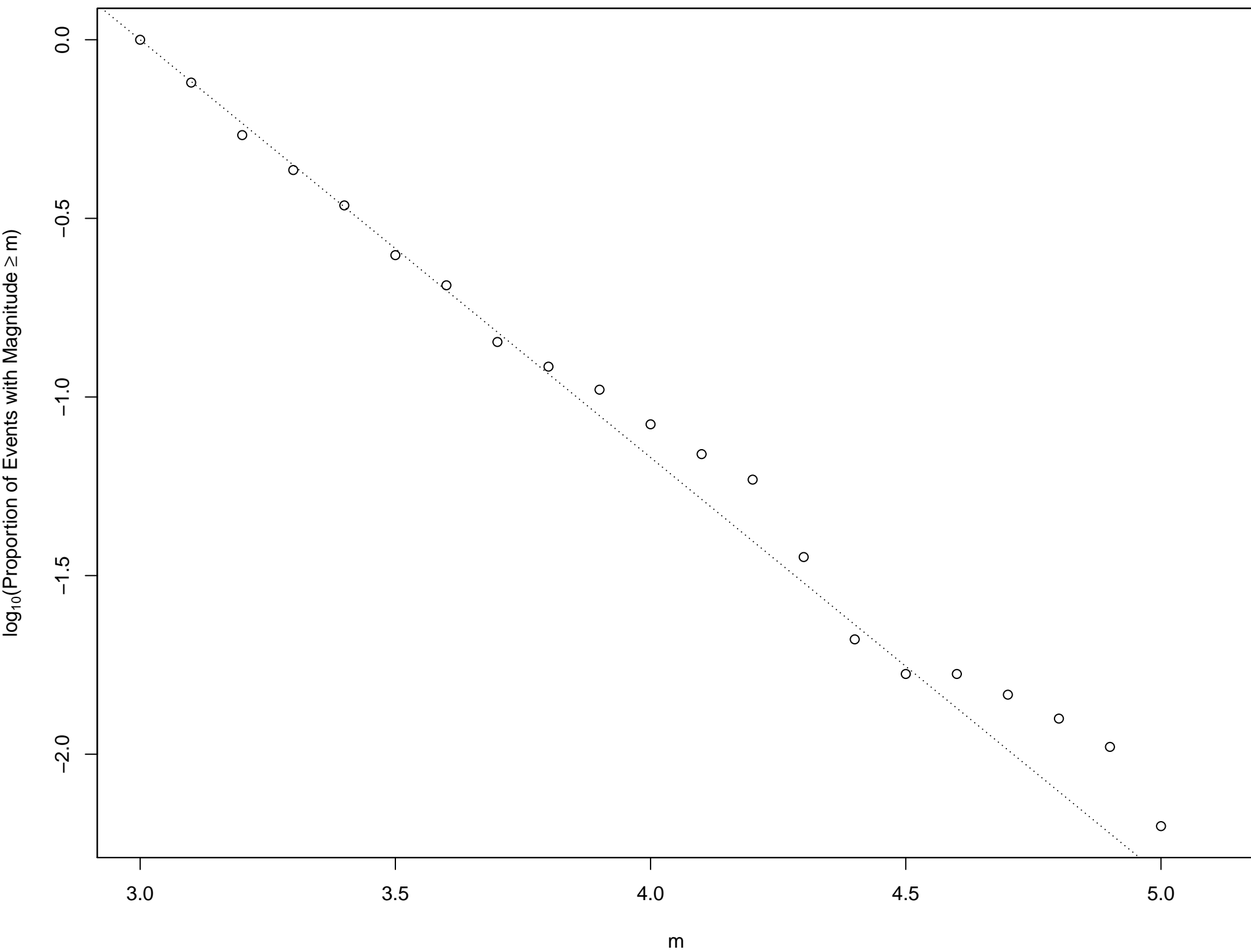
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2010



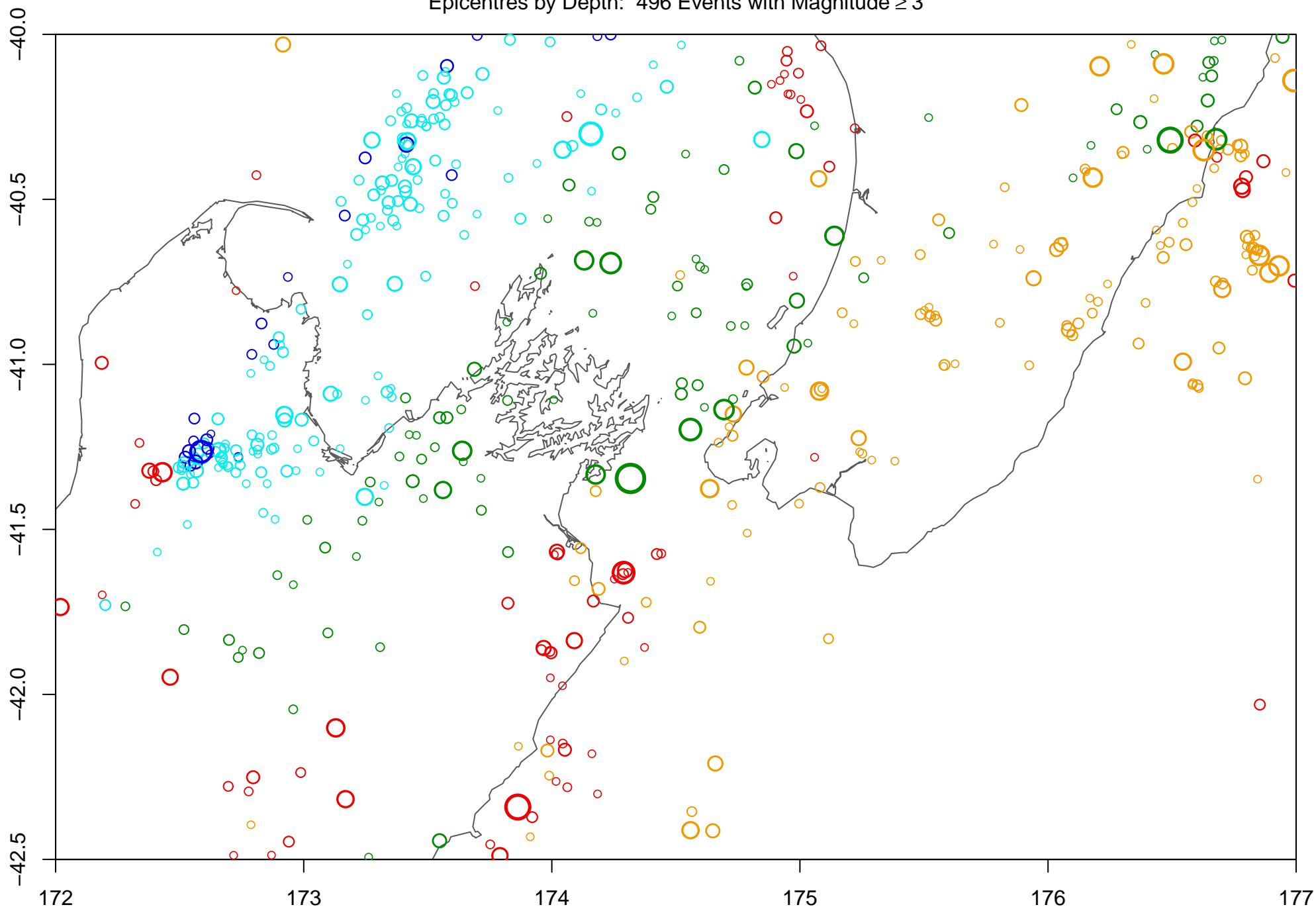
# Catalogued Events in Central NZ During 2010

Gutenberg–Richter Relationship:  $b$ -value = 1.17



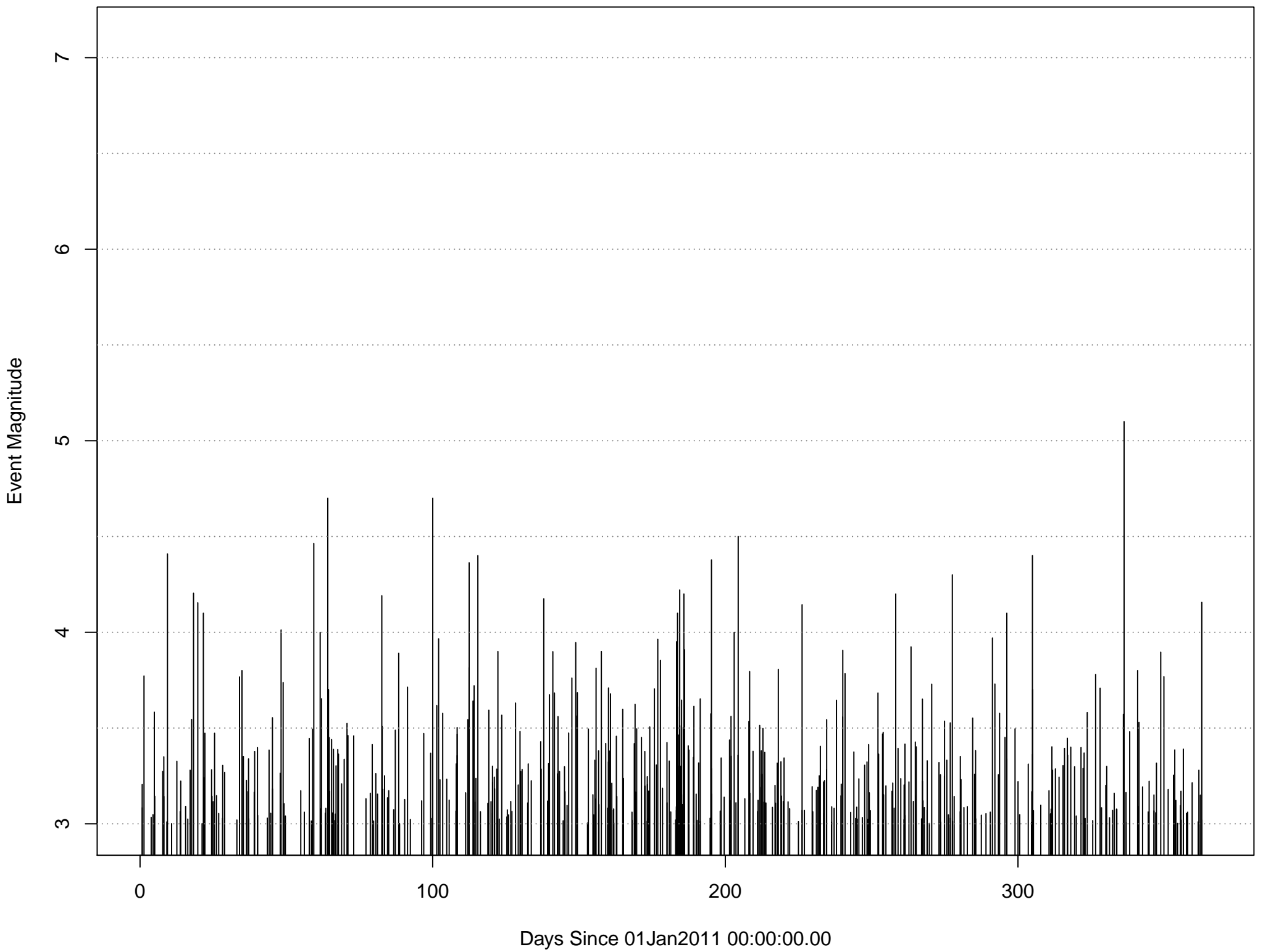
# Catalogued Events in Central NZ During 2011

Epicentres by Depth: 496 Events with Magnitude  $\geq 3$



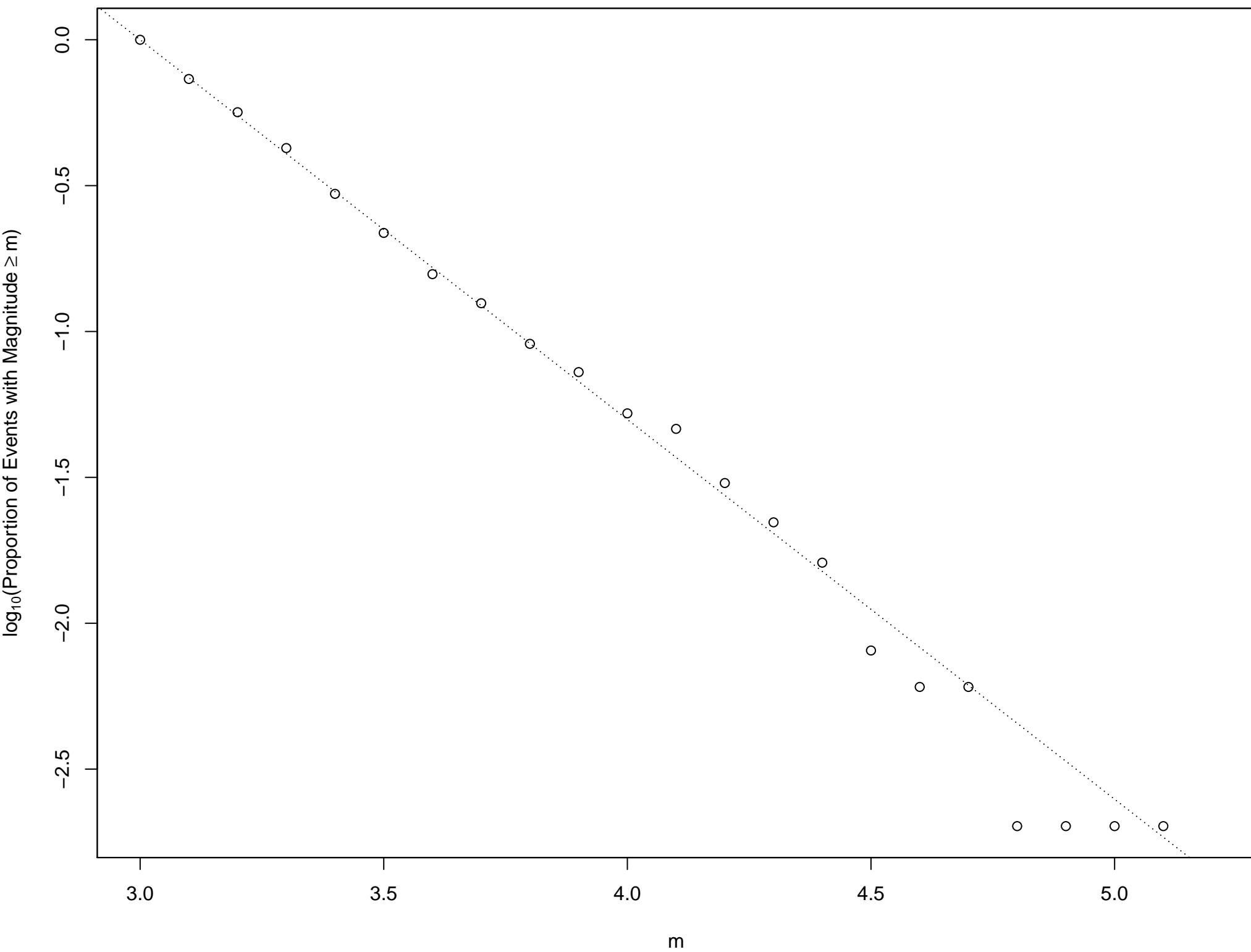
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2011



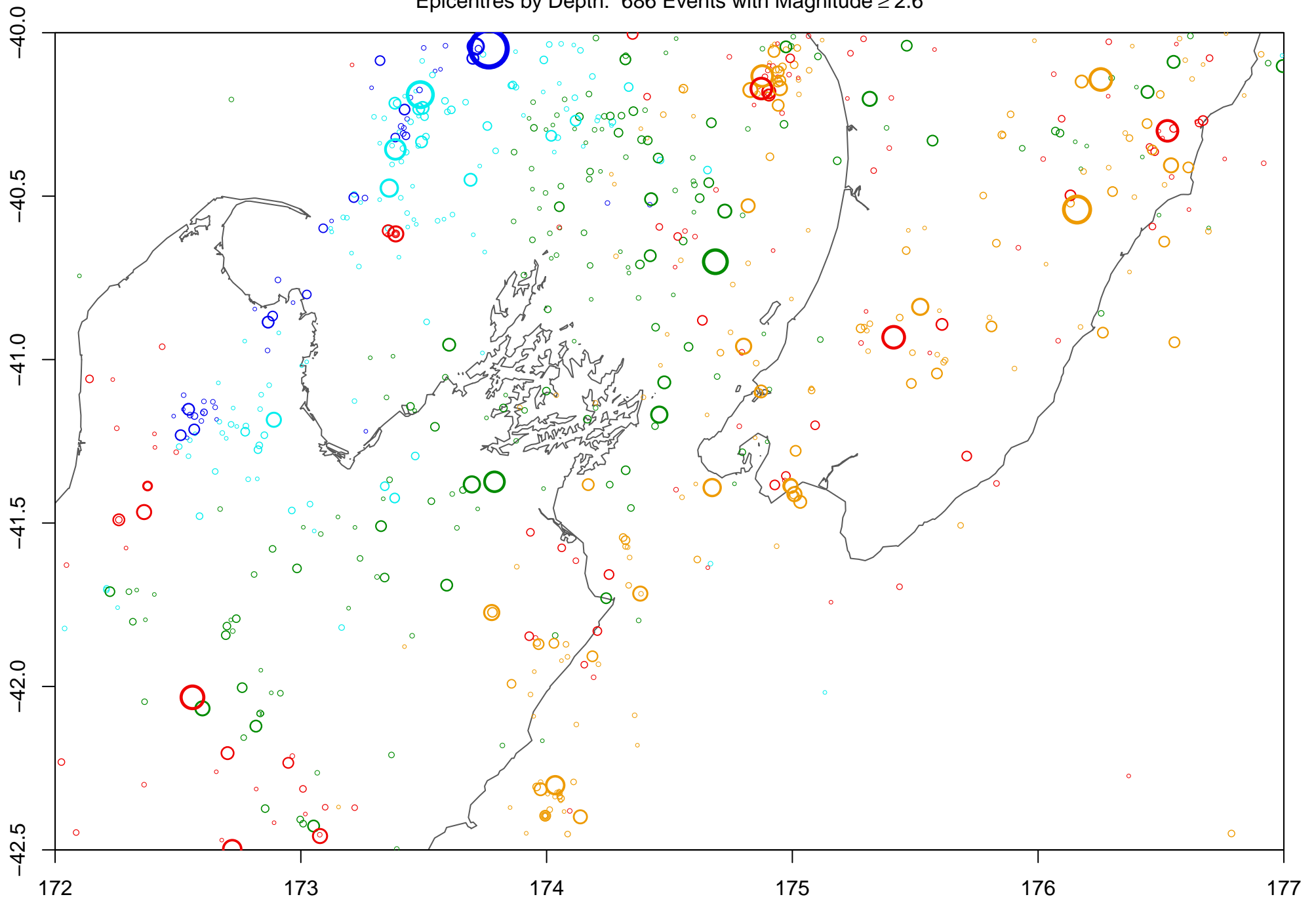
# Catalogued Events in Central NZ During 2011

Gutenberg–Richter Relationship: b-value = 1.30



# Catalogued Events in Central NZ During 2012

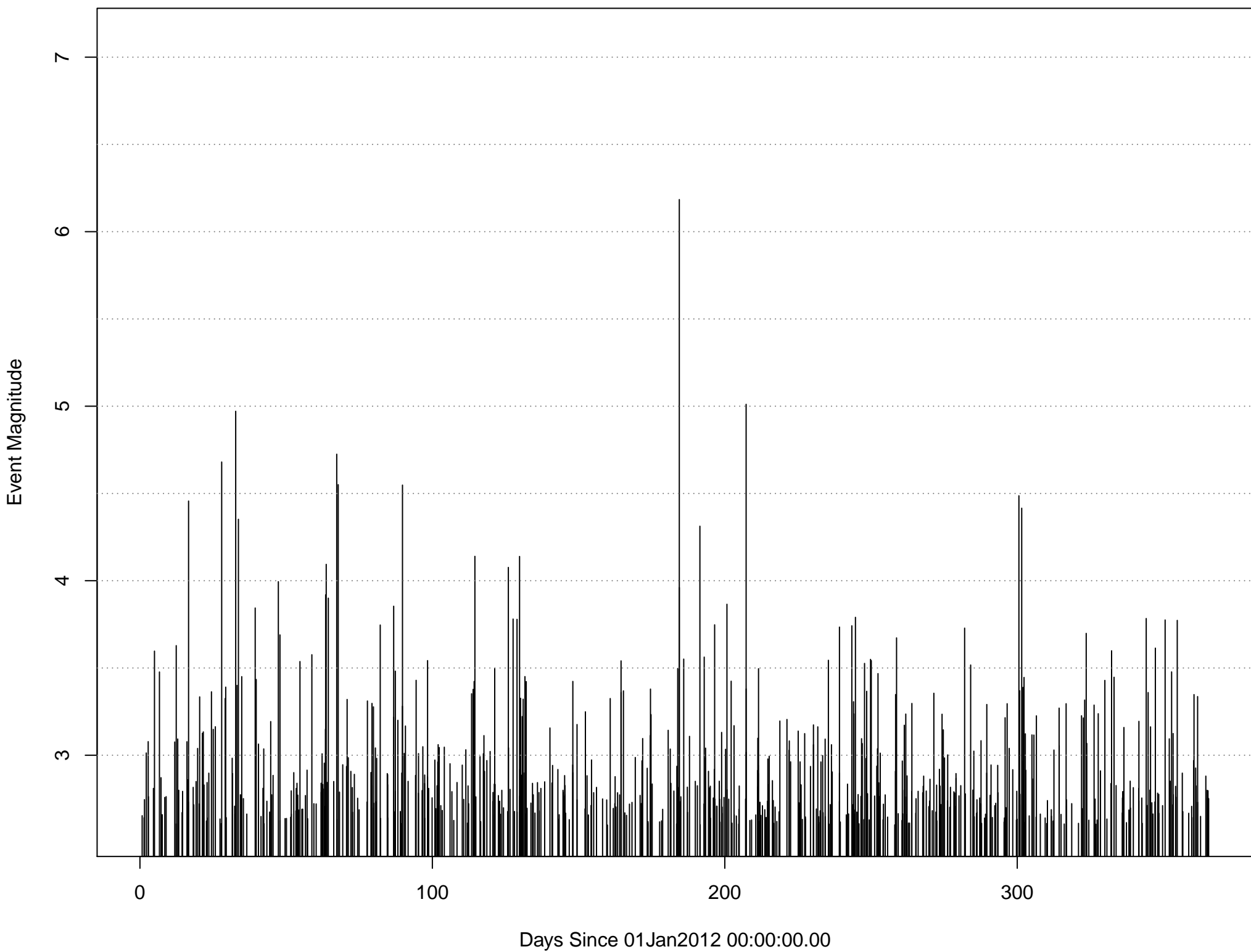
Epicentres by Depth: 686 Events with Magnitude  $\geq 2.6$



Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

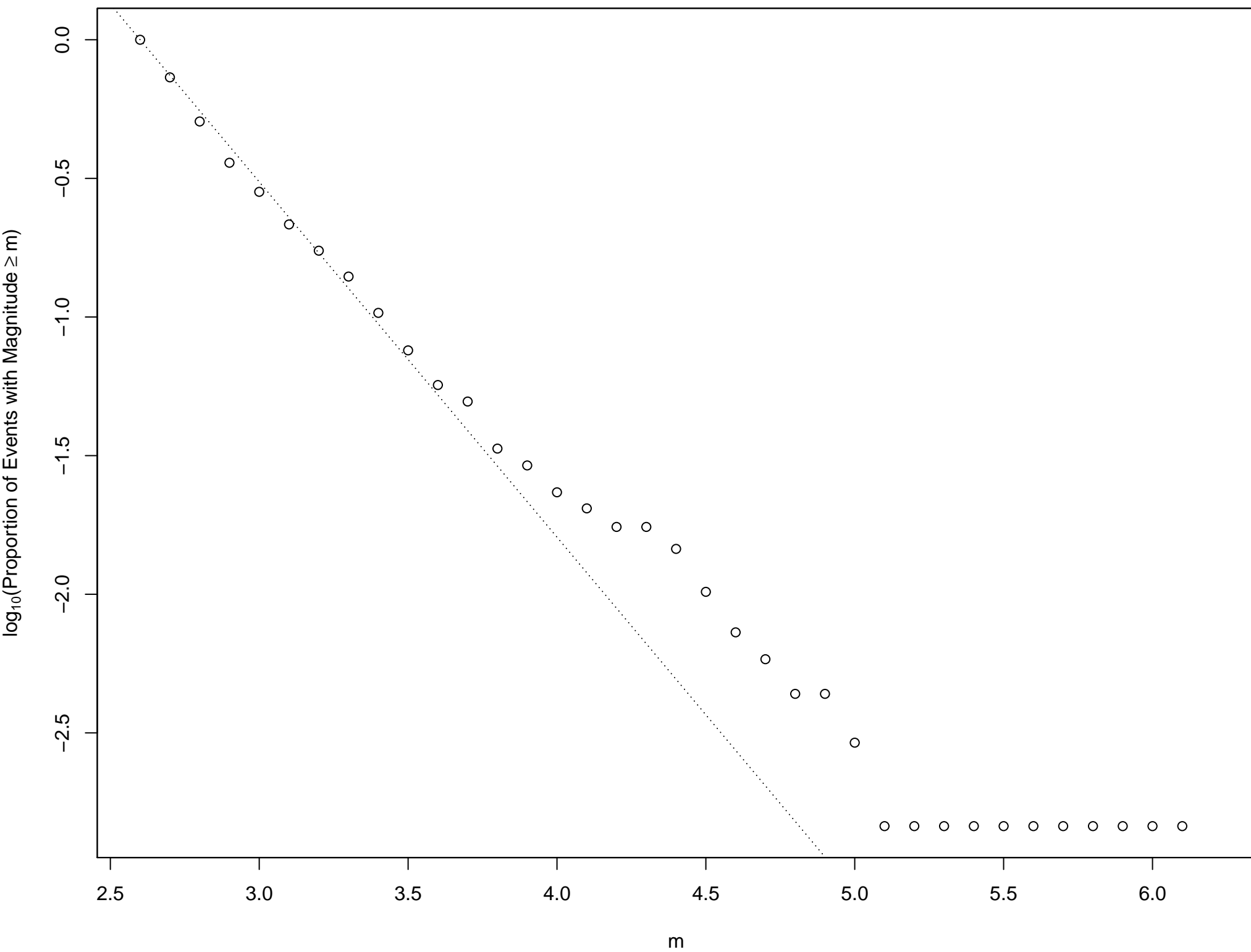


# Catalogued Events in Central NZ During 2012



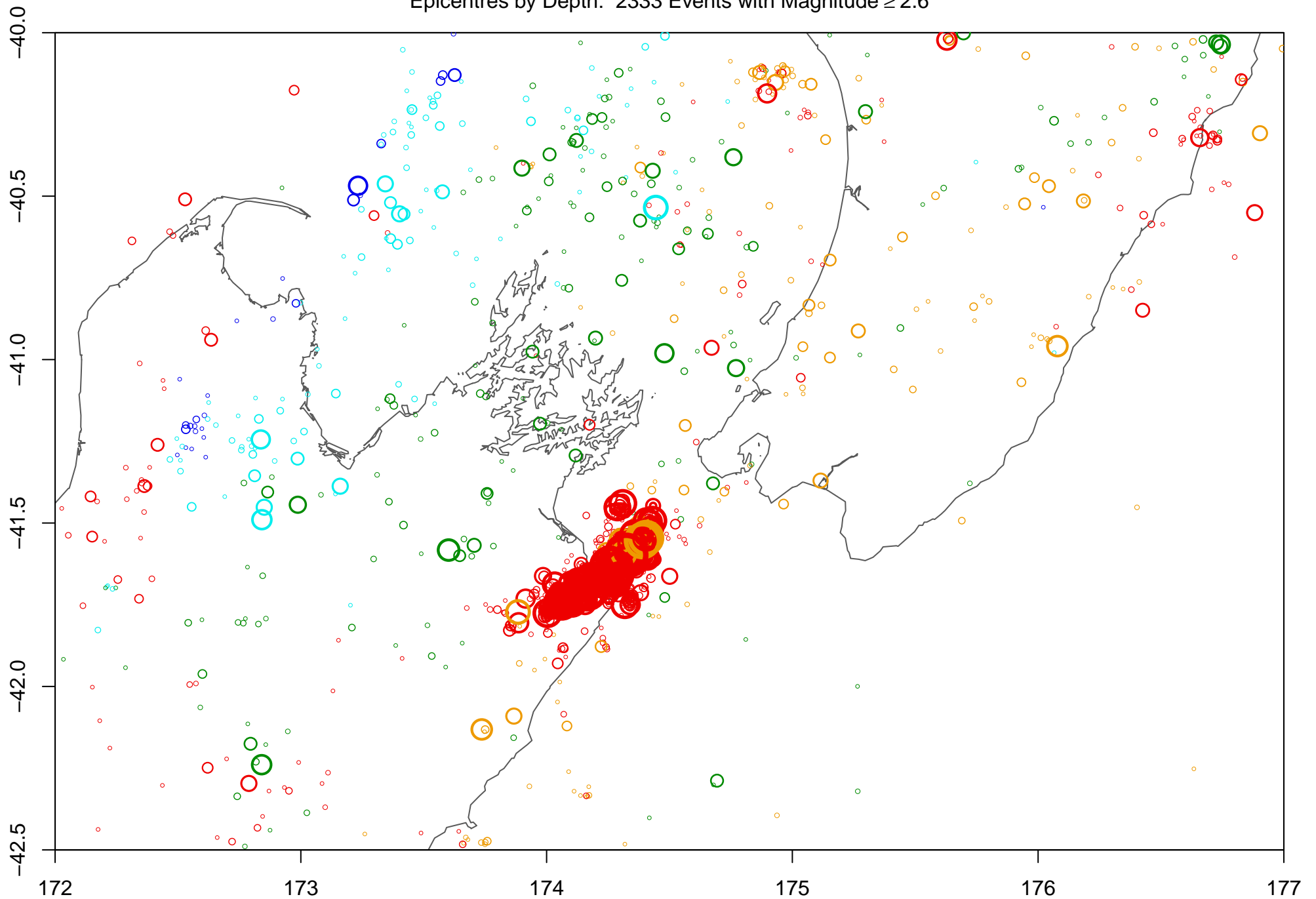
# Catalogued Events in Central NZ During 2012

Gutenberg–Richter Relationship:  $b$ -value = 1.28



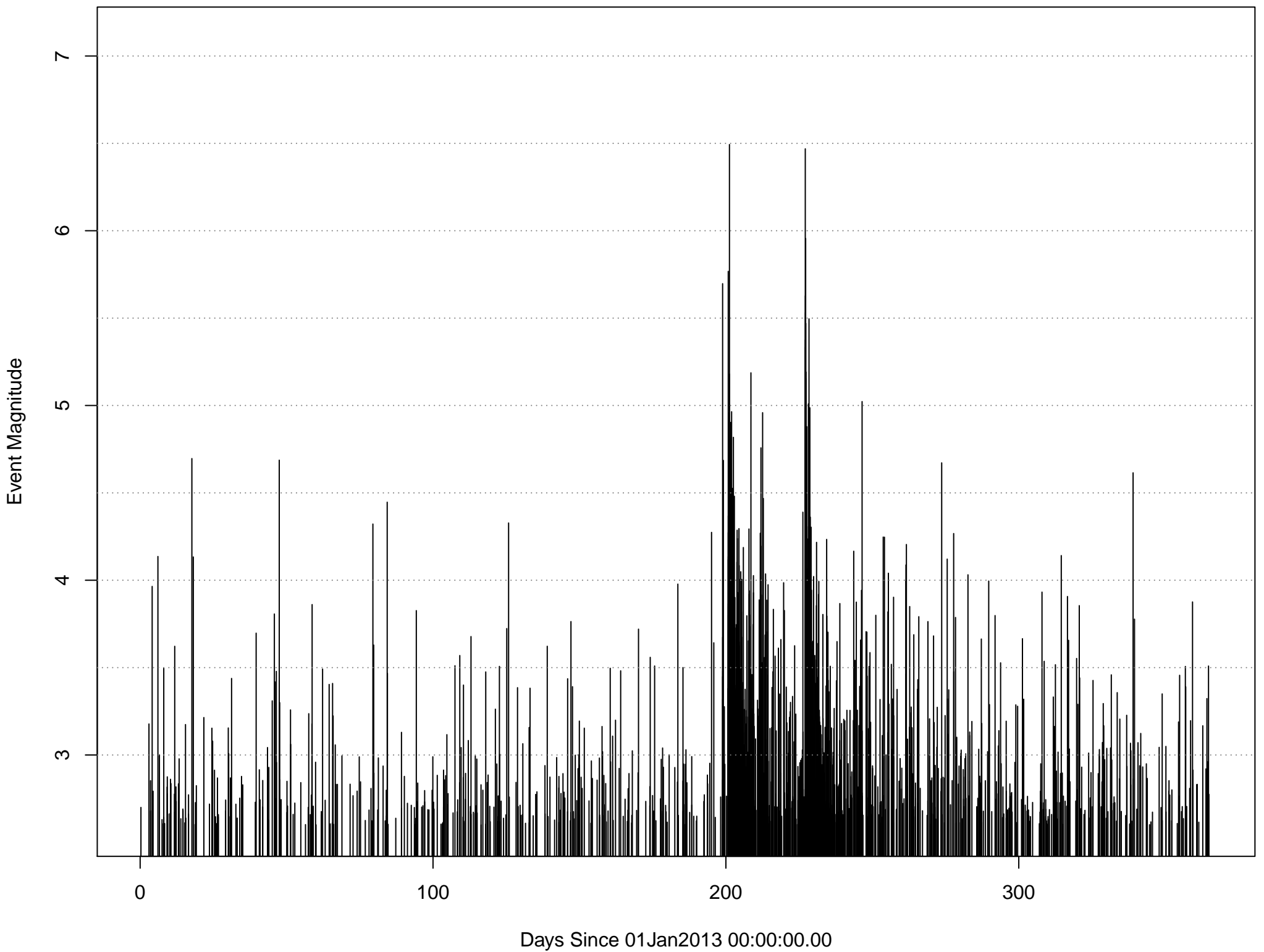
# Catalogued Events in Central NZ During 2013

Epicentres by Depth: 2333 Events with Magnitude  $\geq 2.6$



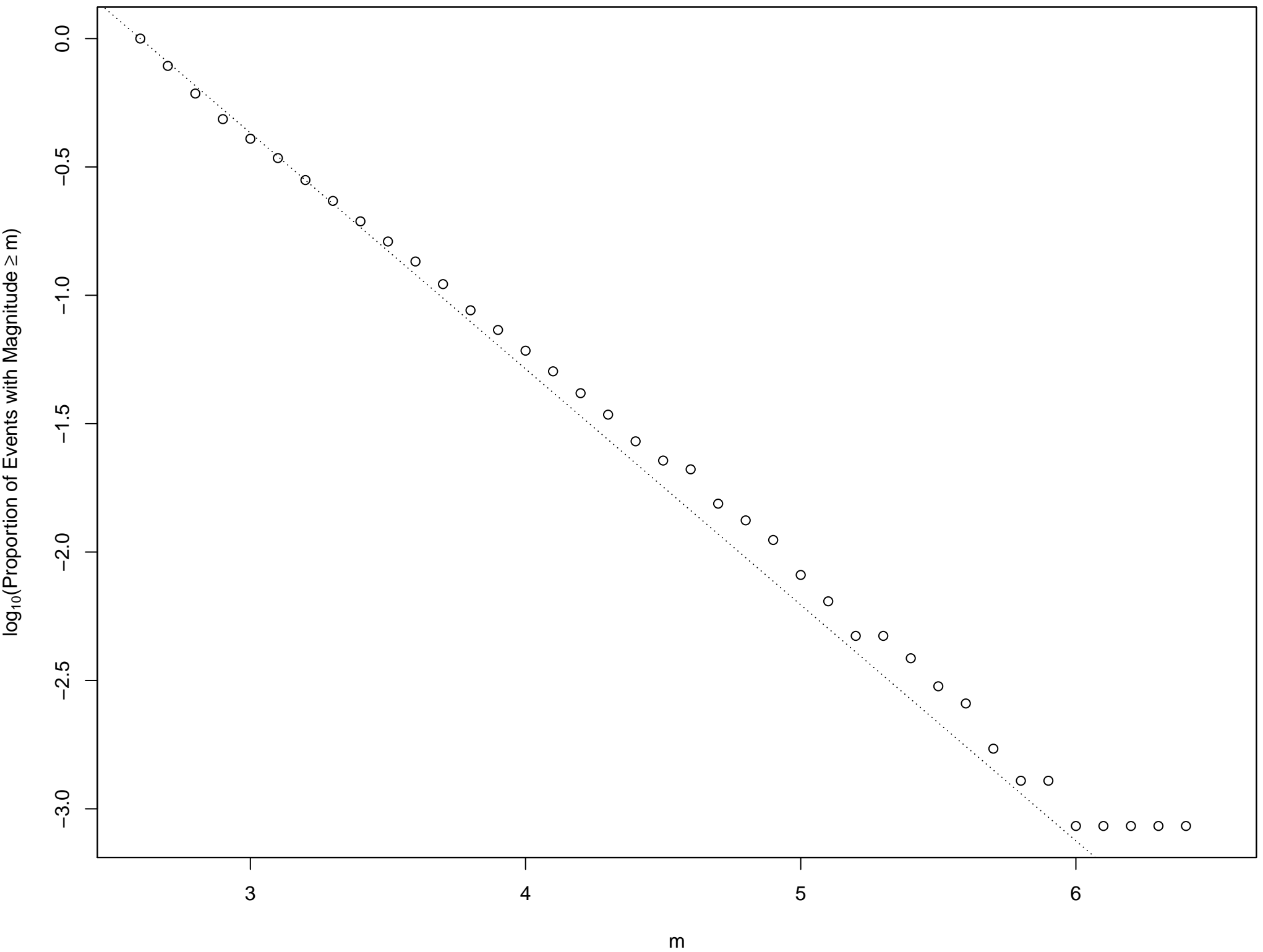
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2013



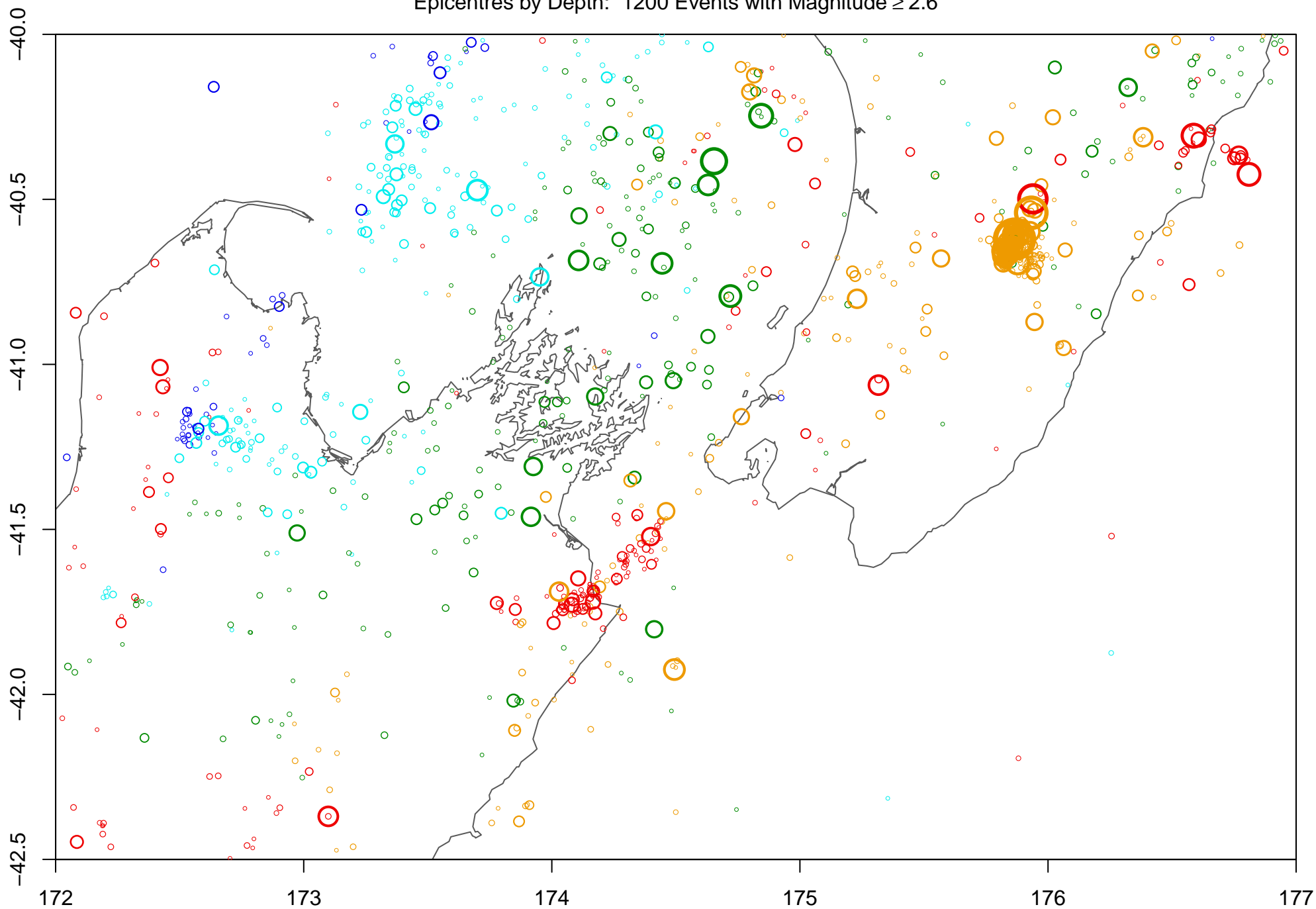
# Catalogued Events in Central NZ During 2013

Gutenberg–Richter Relationship:  $b$ -value = 0.92



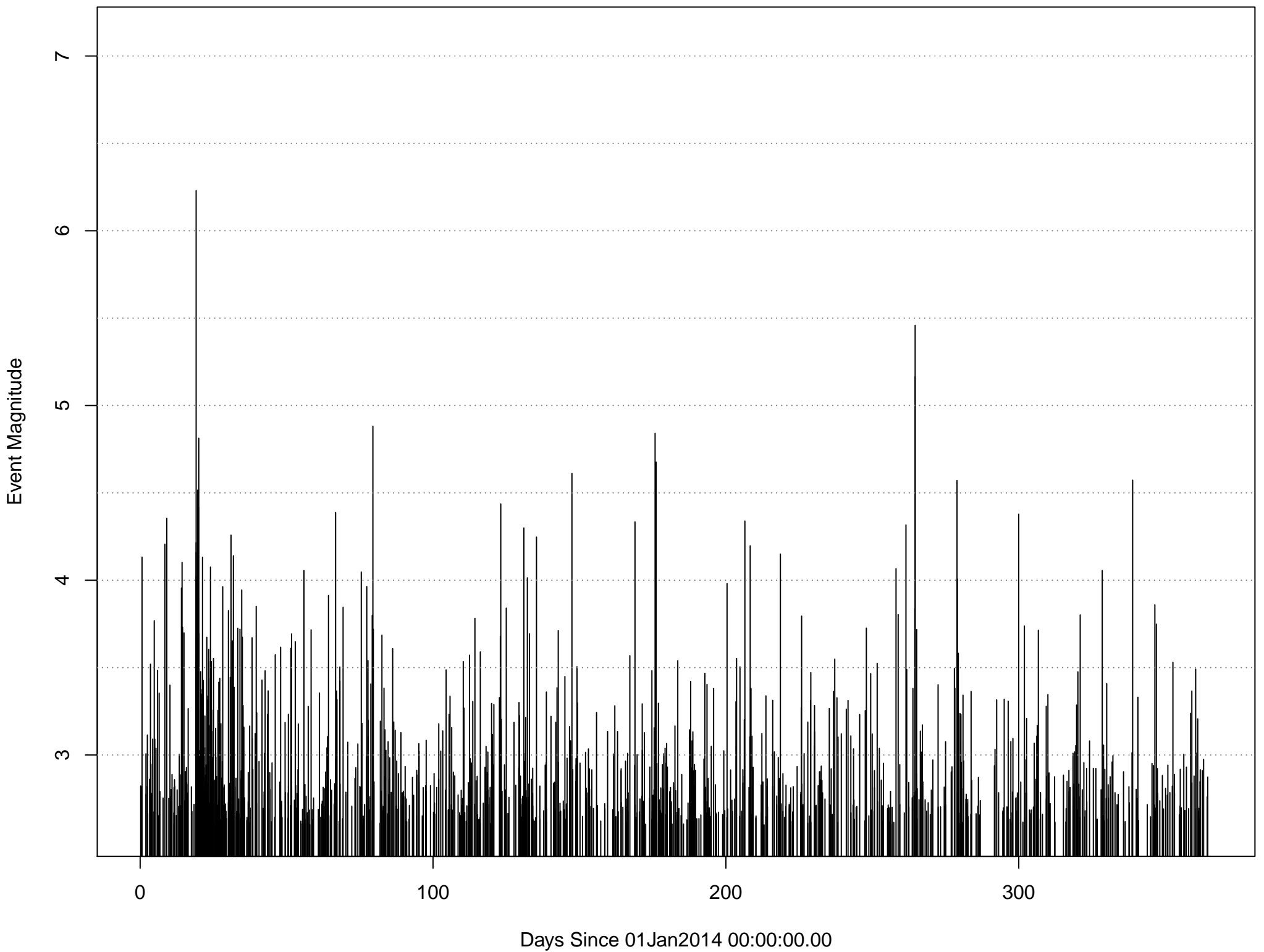
# Catalogued Events in Central NZ During 2014

Epicentres by Depth: 1200 Events with Magnitude  $\geq 2.6$



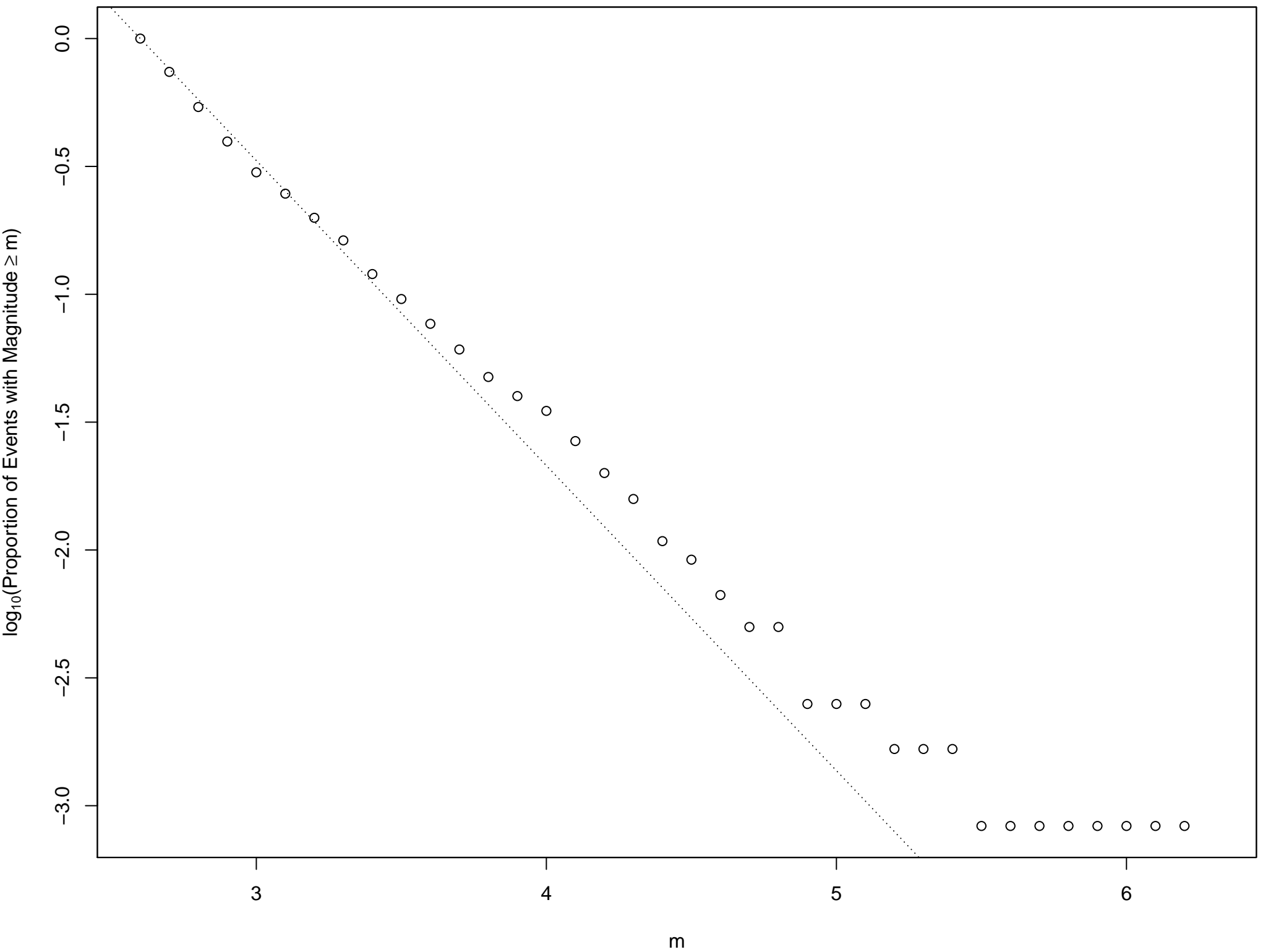
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2014



# Catalogued Events in Central NZ During 2014

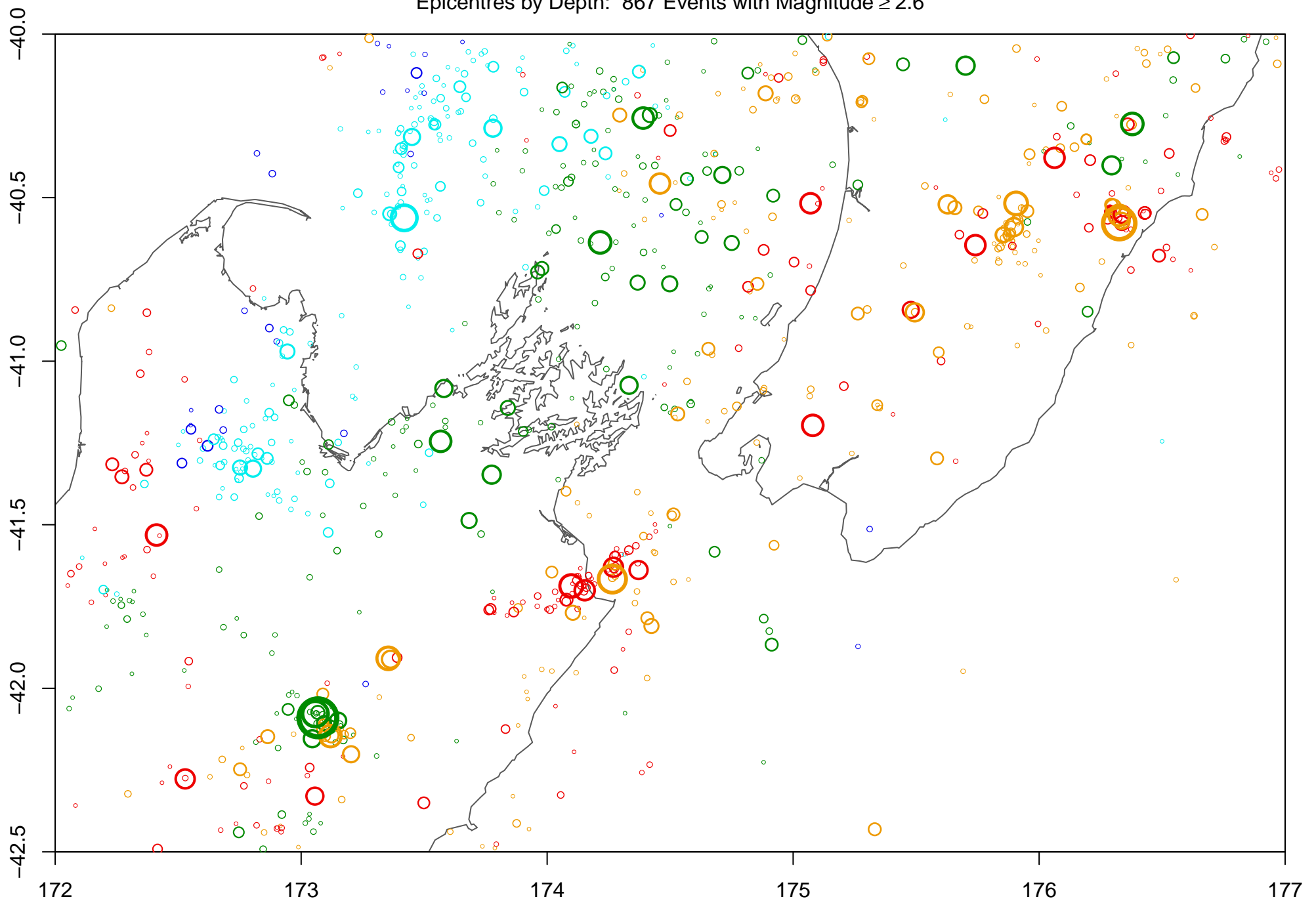
Gutenberg–Richter Relationship:  $b$ -value = 1.19





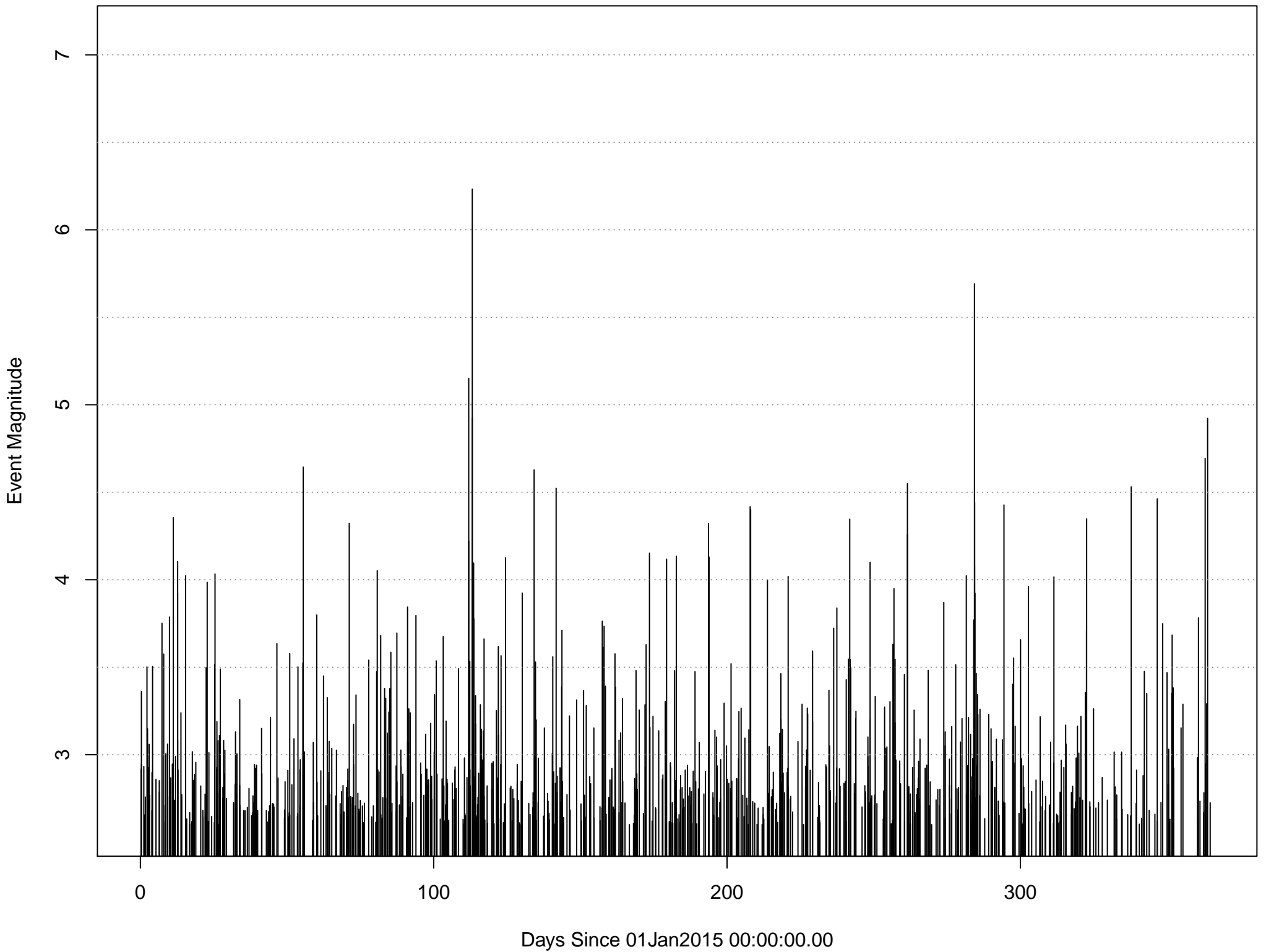
# Catalogued Events in Central NZ During 2015

Epicentres by Depth: 867 Events with Magnitude  $\geq 2.6$



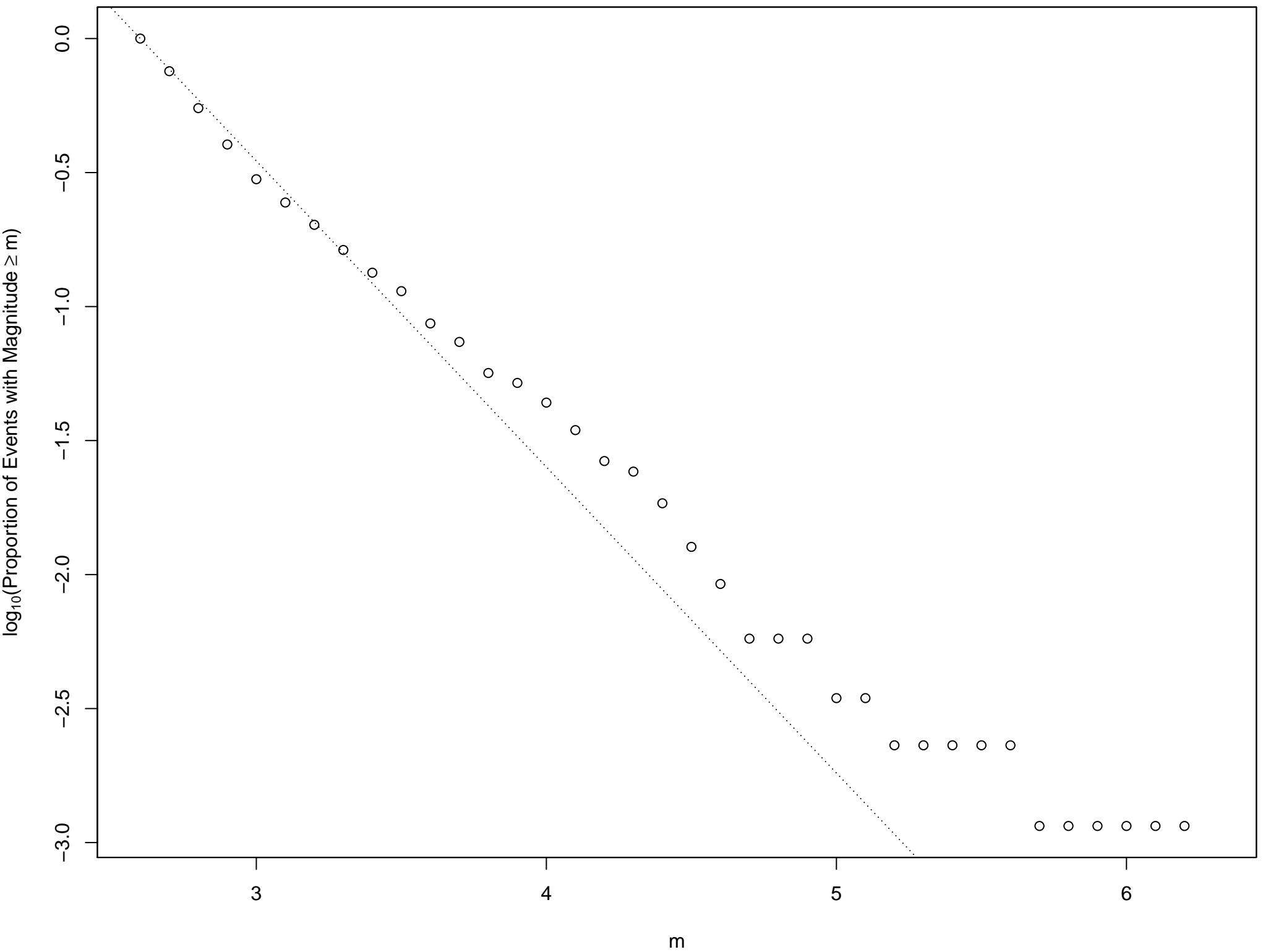
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2015



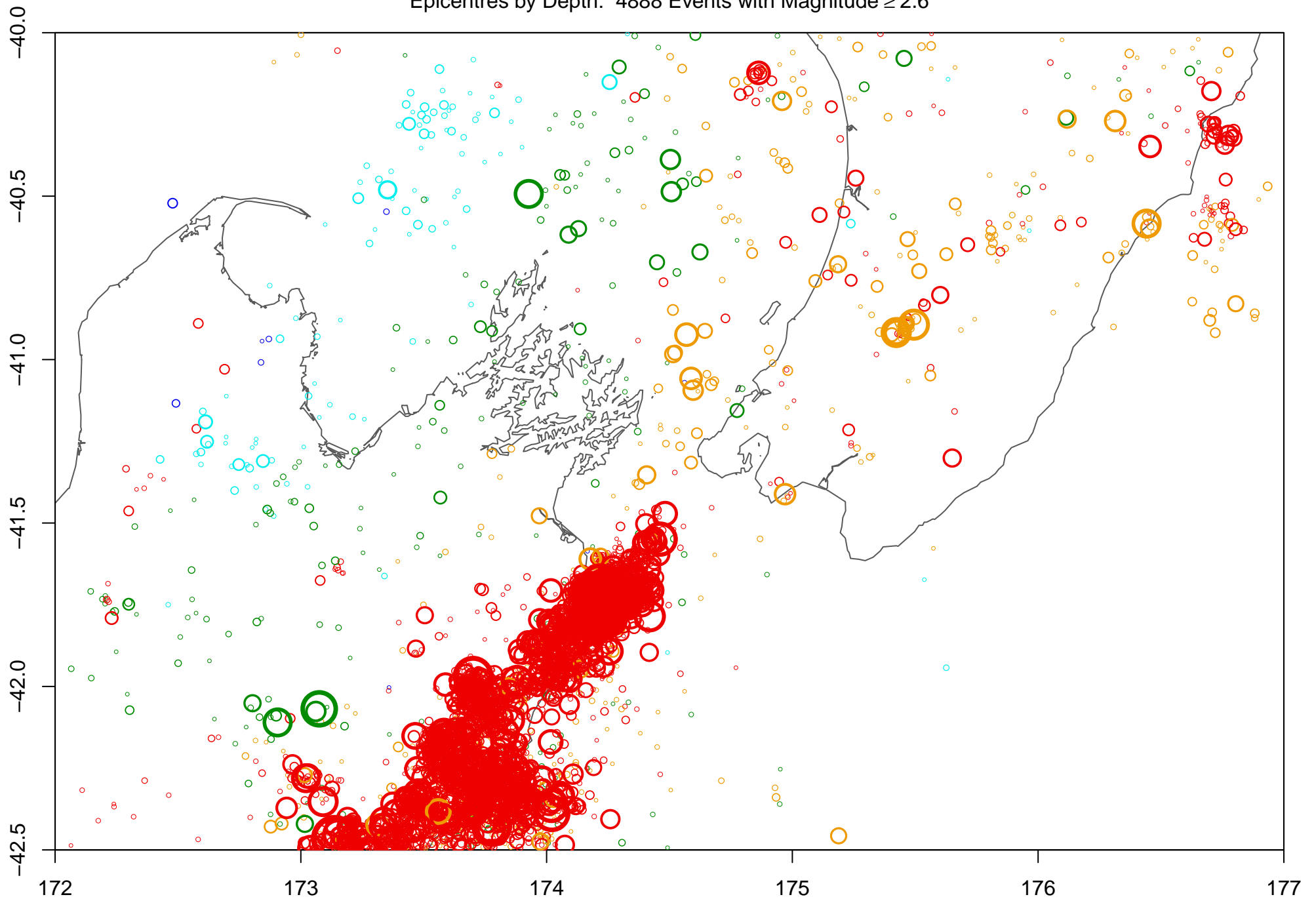
# Catalogued Events in Central NZ During 2015

Gutenberg–Richter Relationship:  $b$ -value = 1.14



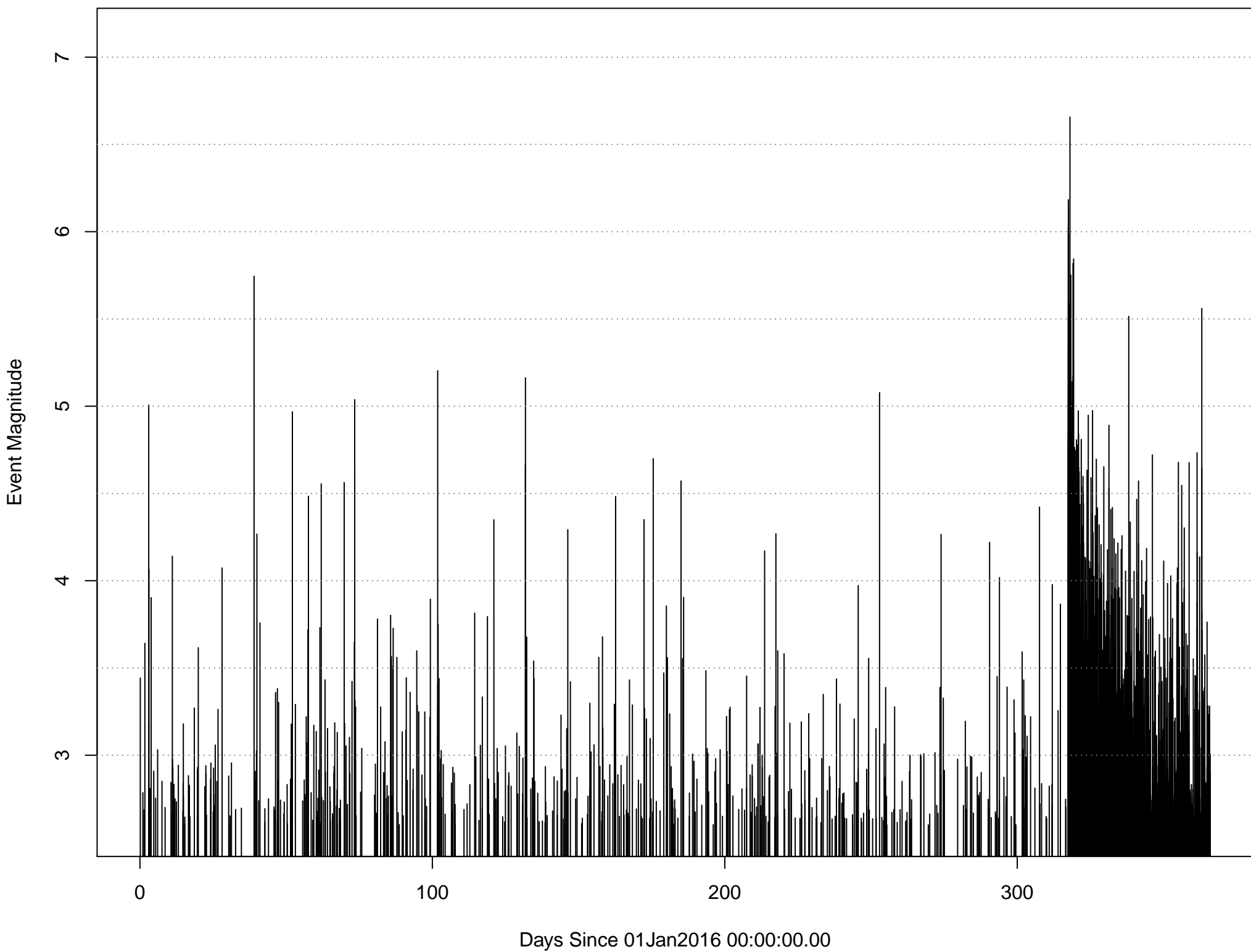
# Catalogued Events in Central NZ During 2016

Epicentres by Depth: 4888 Events with Magnitude  $\geq 2.6$



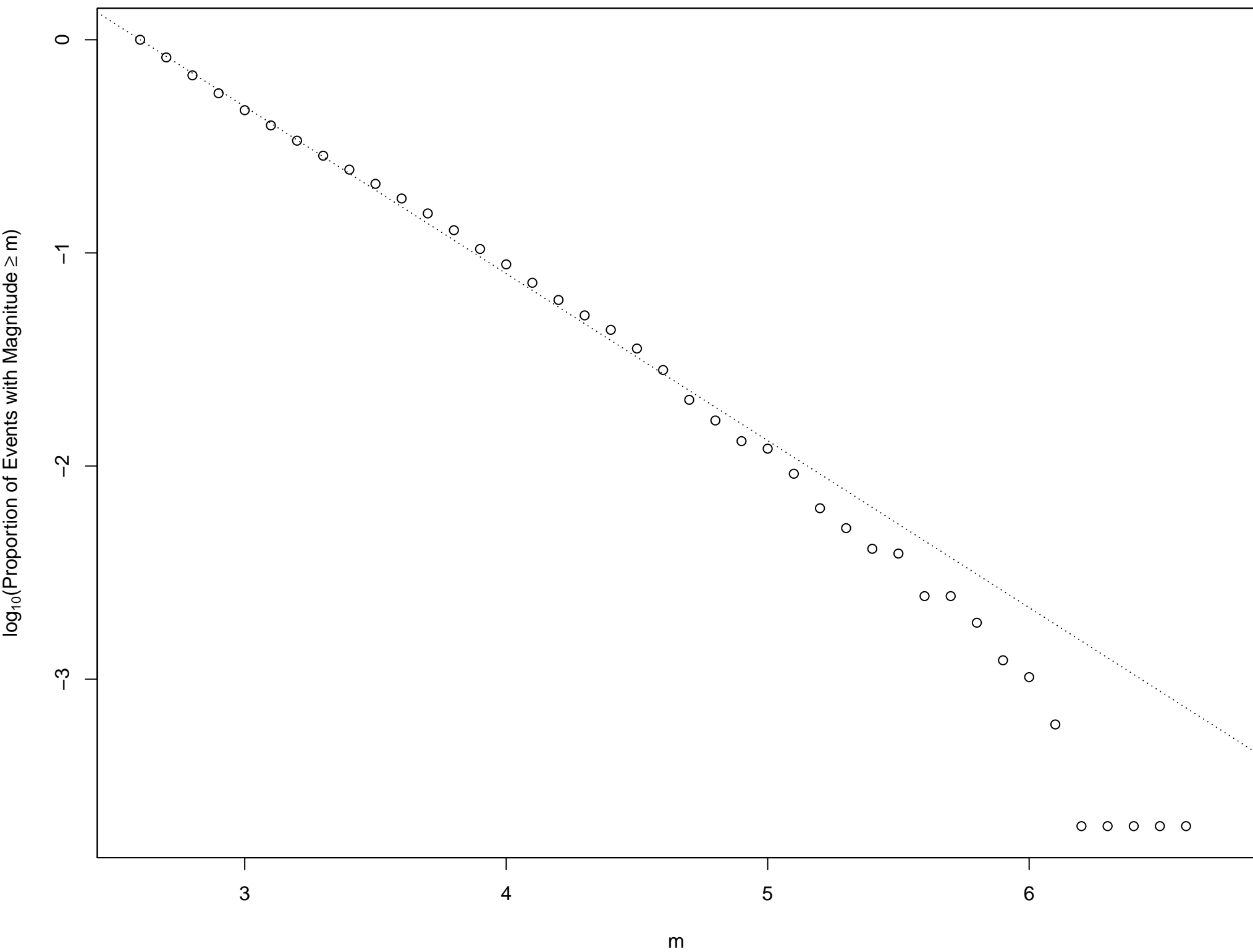
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2016



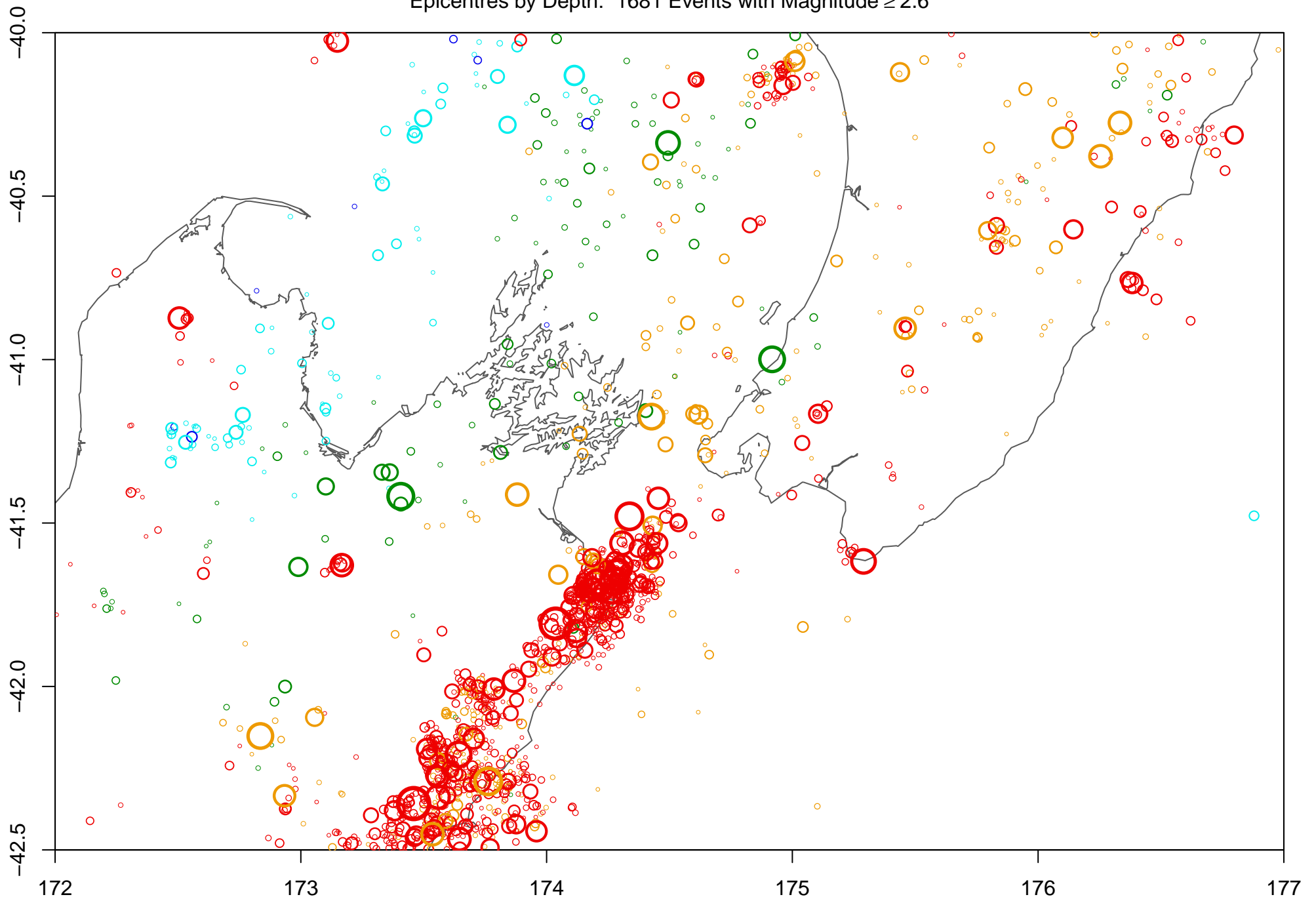
# Catalogued Events in Central NZ During 2016

Gutenberg–Richter Relationship:  $b$ -value = 0.78



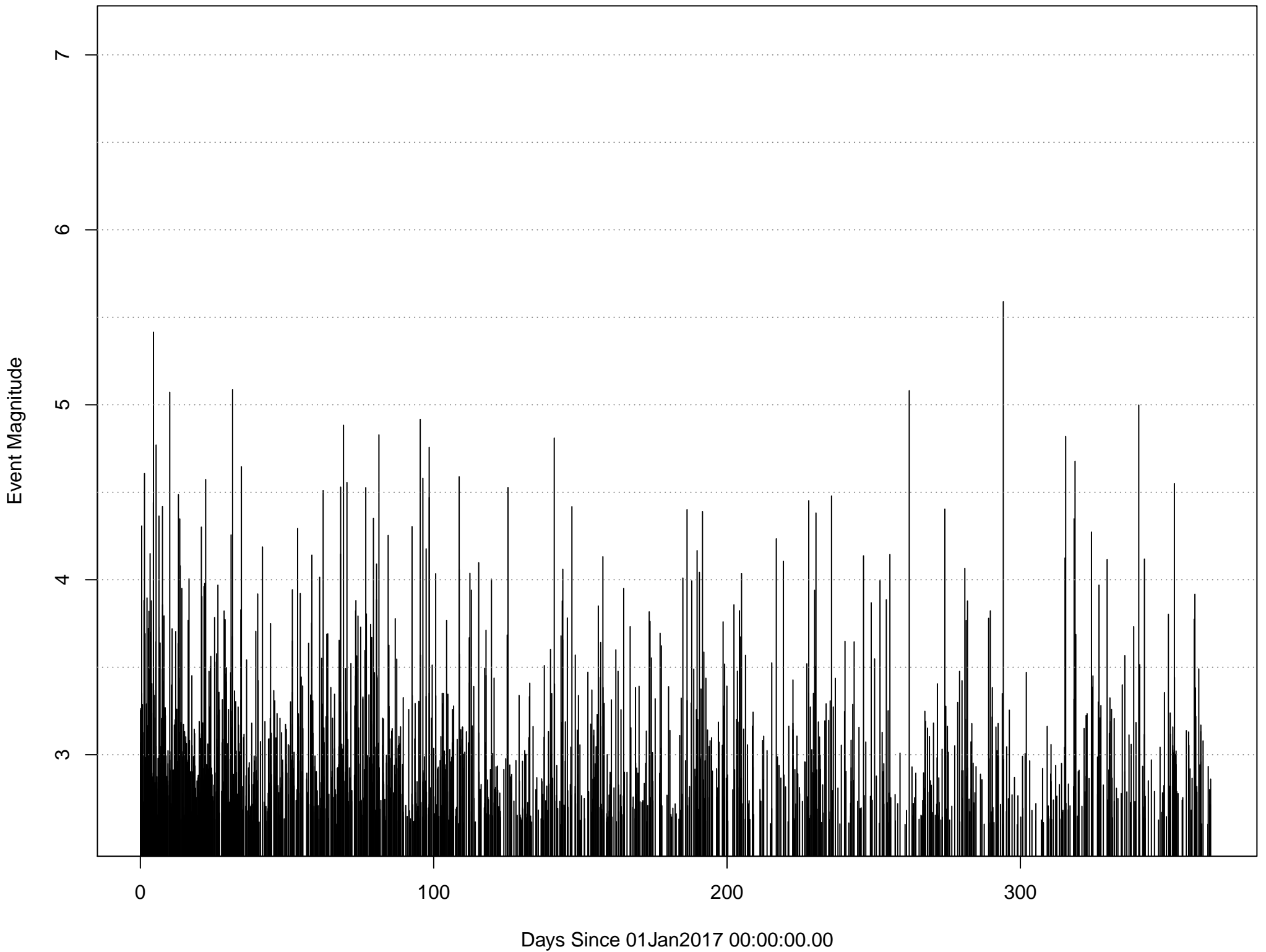
# Catalogued Events in Central NZ During 2017

Epicentres by Depth: 1681 Events with Magnitude  $\geq 2.6$



Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

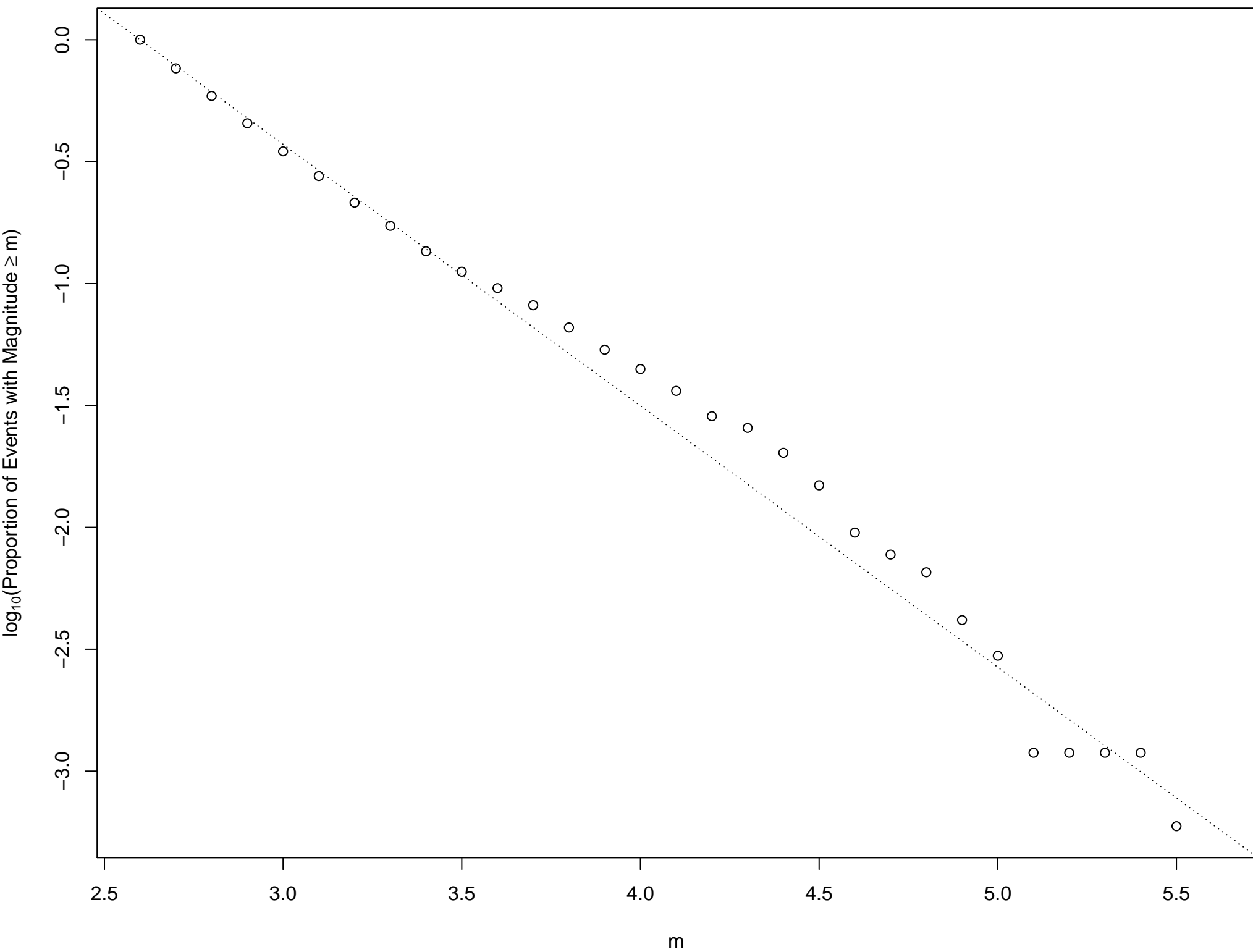
# Catalogued Events in Central NZ During 2017





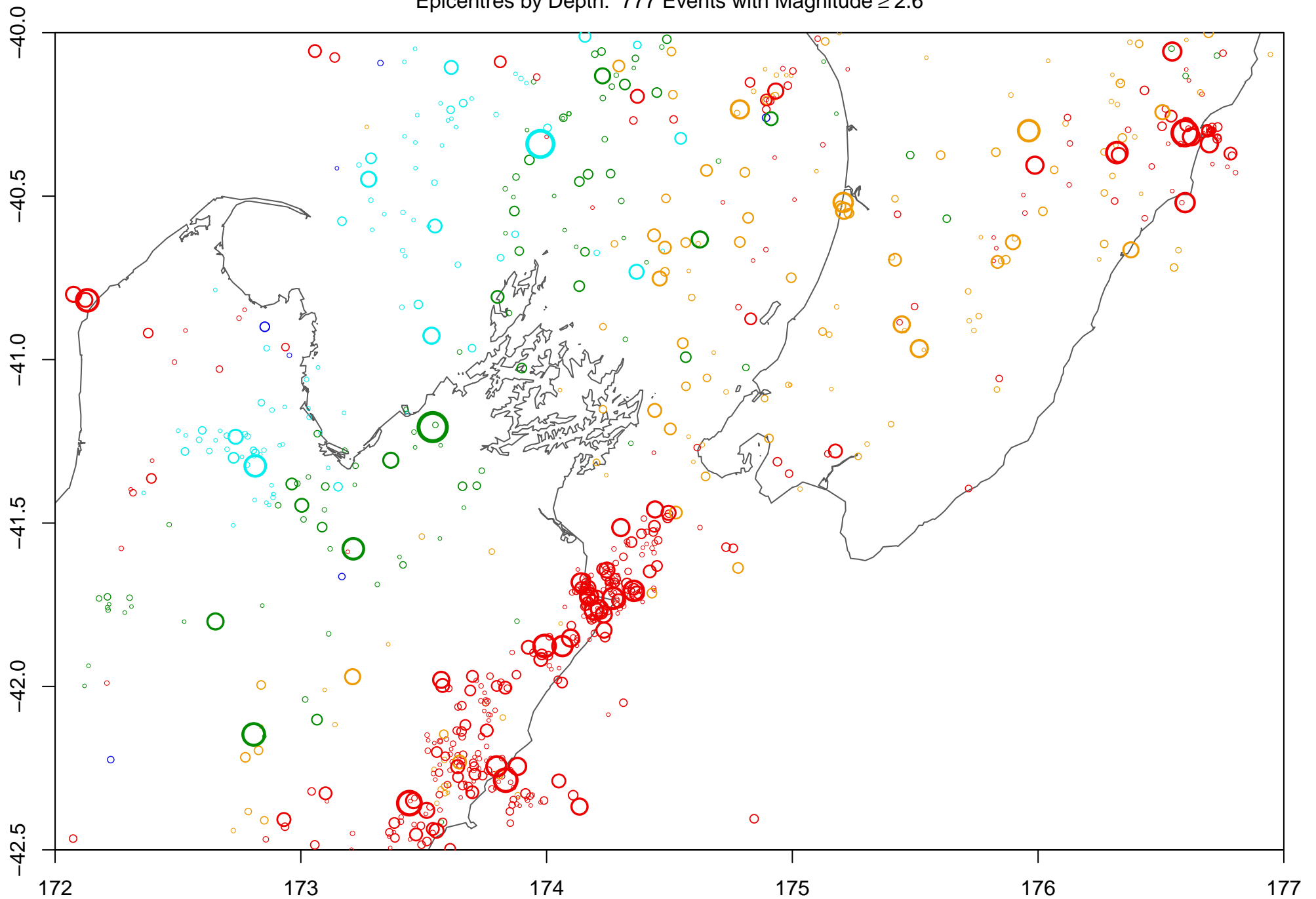
# Catalogued Events in Central NZ During 2017

Gutenberg–Richter Relationship:  $b$ -value = 1.07



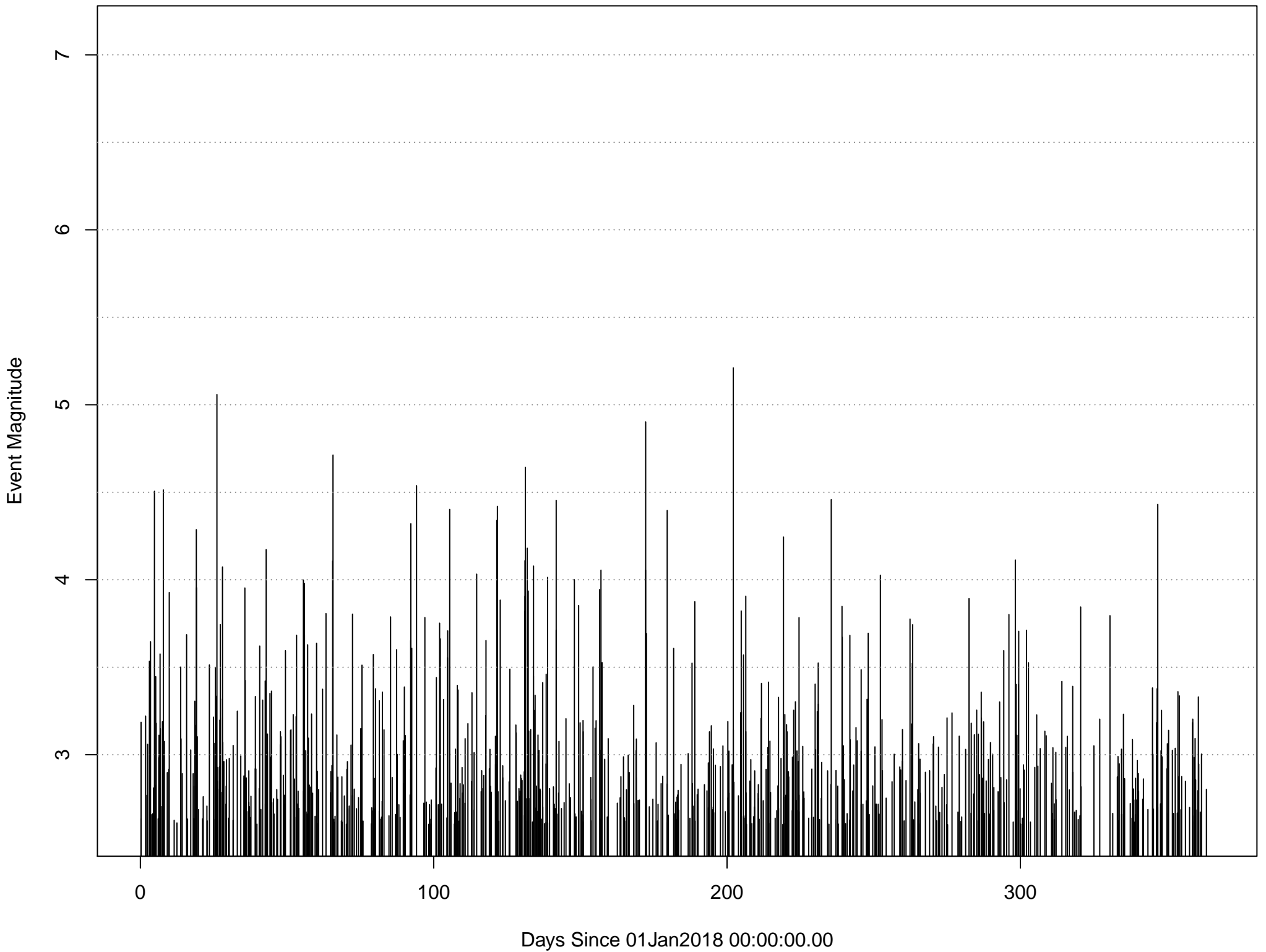
# Catalogued Events in Central NZ During 2018

Epicentres by Depth: 777 Events with Magnitude  $\geq 2.6$



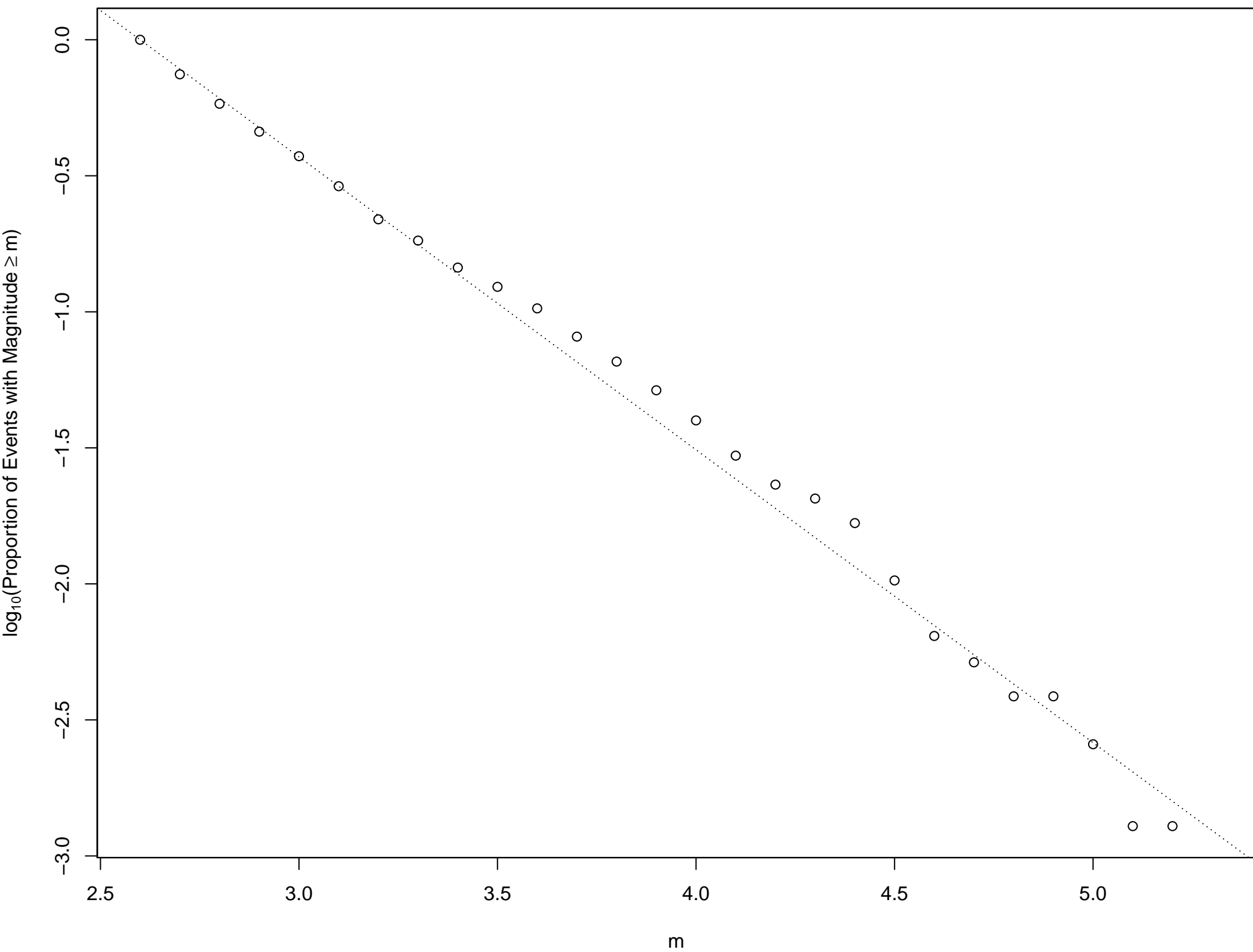
Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2018



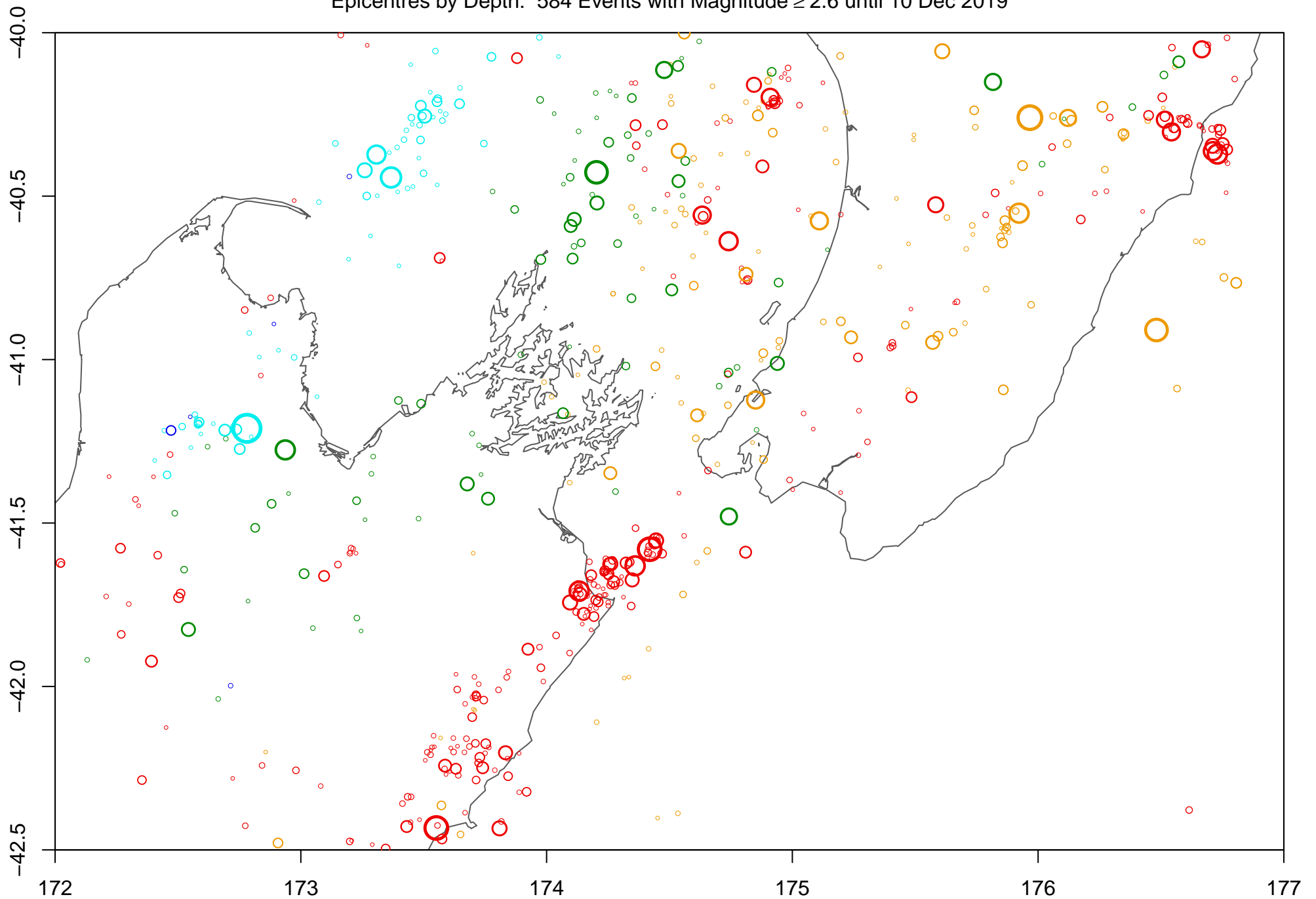
# Catalogued Events in Central NZ During 2018

Gutenberg–Richter Relationship: b-value = 1.08



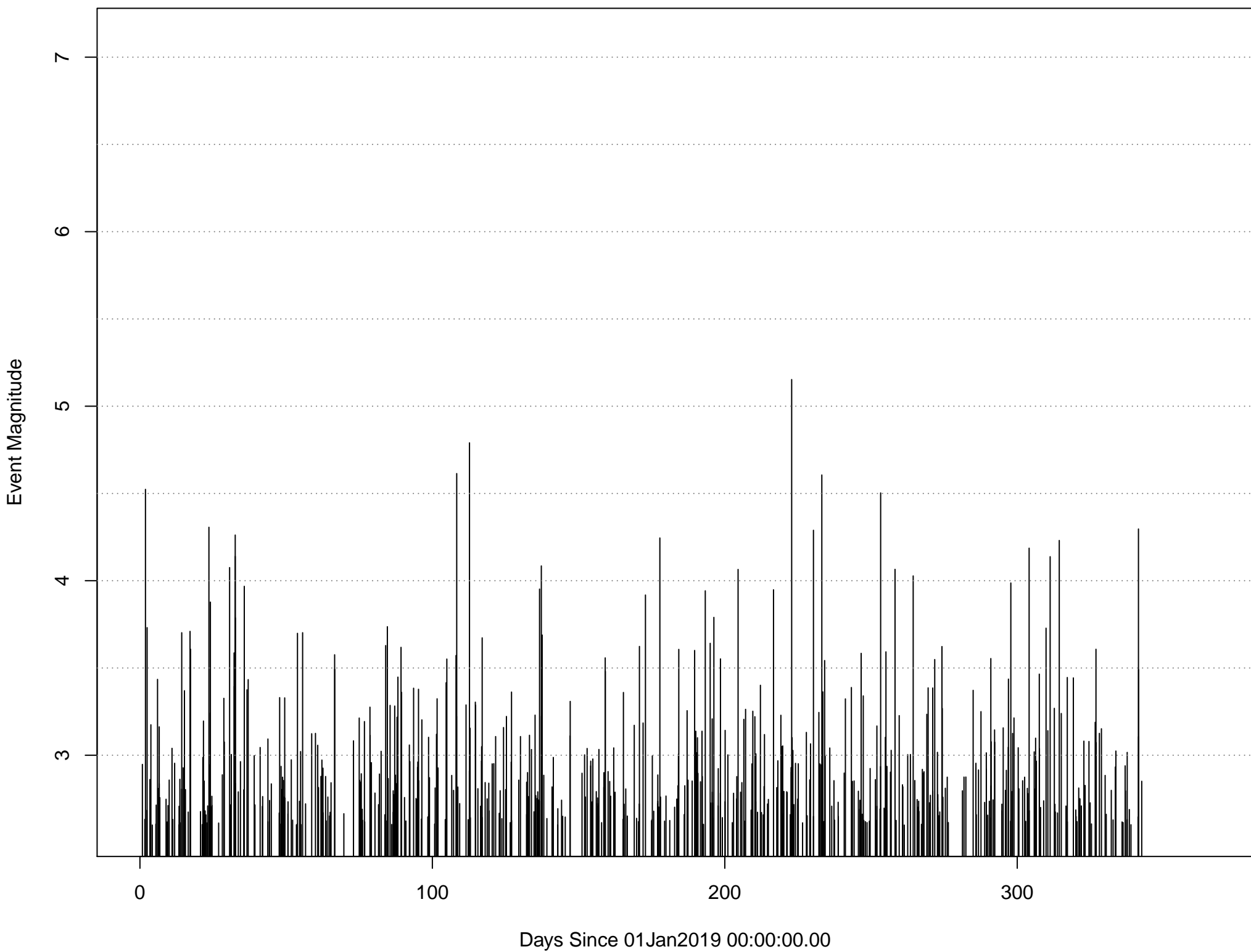
# Catalogued Events in Central NZ During 2019

Epicentres by Depth: 584 Events with Magnitude  $\geq 2.6$  until 10 Dec 2019



Depth (km):  $0 \leq \text{red} \leq 20 < \text{orange} \leq 40 < \text{green} \leq 100 < \text{cyan} \leq 200 < \text{blue} < \infty$

# Catalogued Events in Central NZ During 2019



# Catalogued Events in Central NZ During 2019

Gutenberg–Richter Relationship: b-value = 1.16

