

# Maps & Geomorphology



# New Zealand

Archipelago of 700 islands

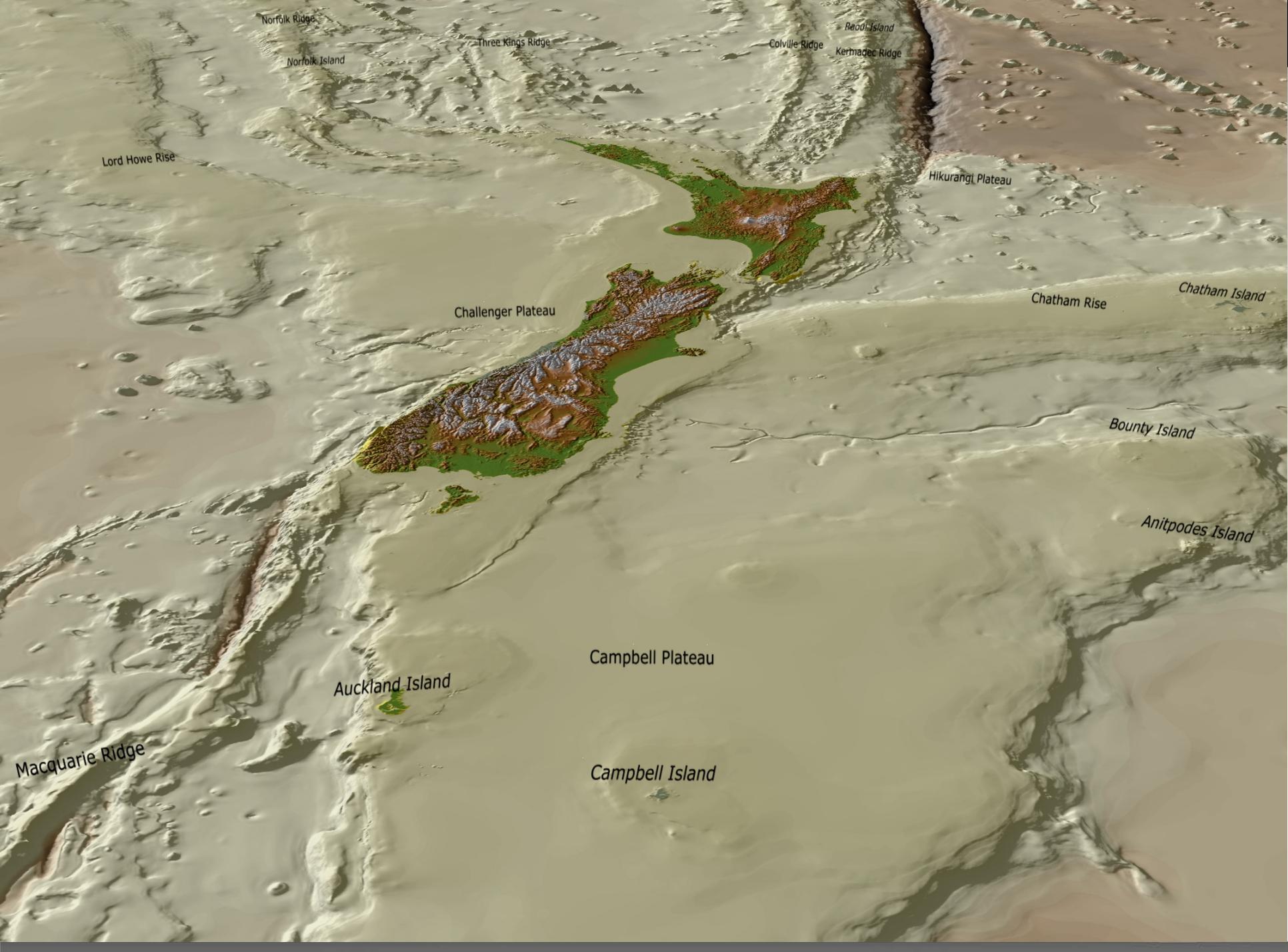
Total area 270,000 sq km

70% classified as hilly or steep

Over 60% >300m in altitude

Mountains reach 3750m





Norfolk Ridge

Norfolk Island

Three Kings Ridge

Colville Ridge

Reed Island

Kermadec Ridge

Lord Howe Rise

Hikurangi Plateau

Challenger Plateau

Chatham Rise

Chatham Island

Bounty Island

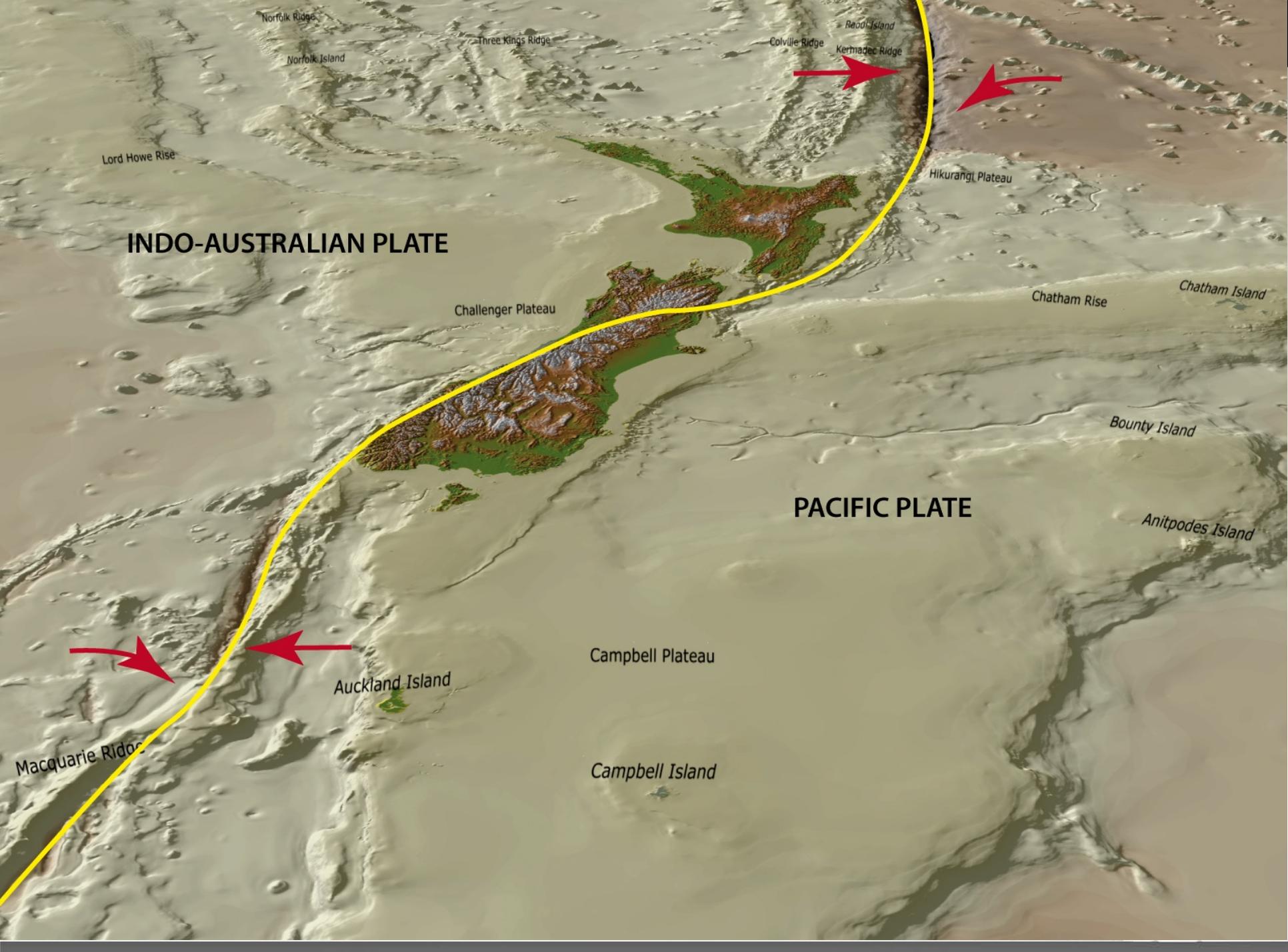
Anitpodes Island

Campbell Plateau

Auckland Island

Campbell Island

Macquarie Ridge



**INDO-AUSTRALIAN PLATE**

**PACIFIC PLATE**

Norfolk Ridge

Norfolk Island

Three Kings Ridge

Colville Ridge

Raoul Island

Kermadec Ridge

Lord Howe Rise

Hikurangi Plateau

Challenger Plateau

Chatham Rise

Chatham Island

Bounty Island

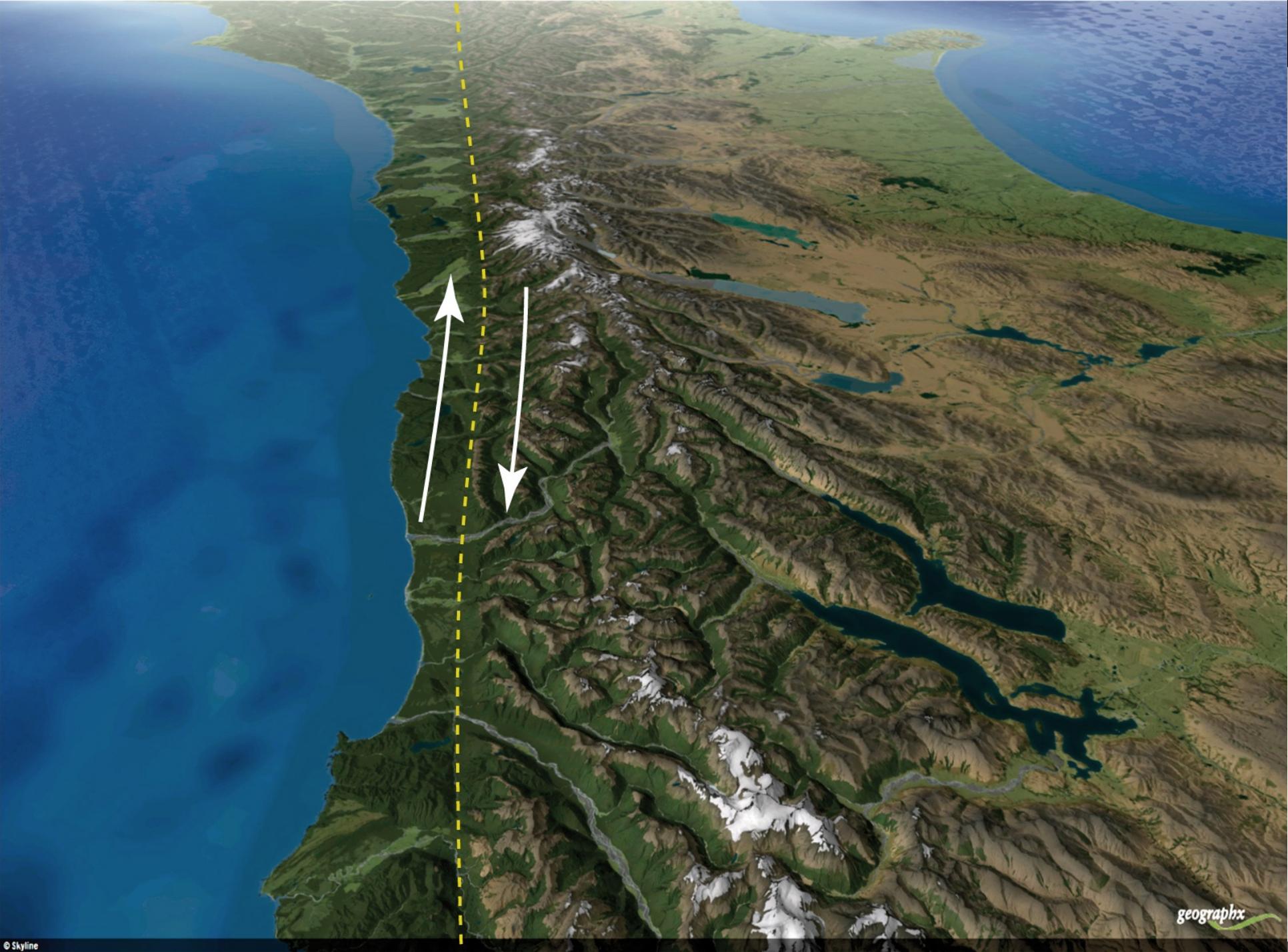
Anitpodes Island

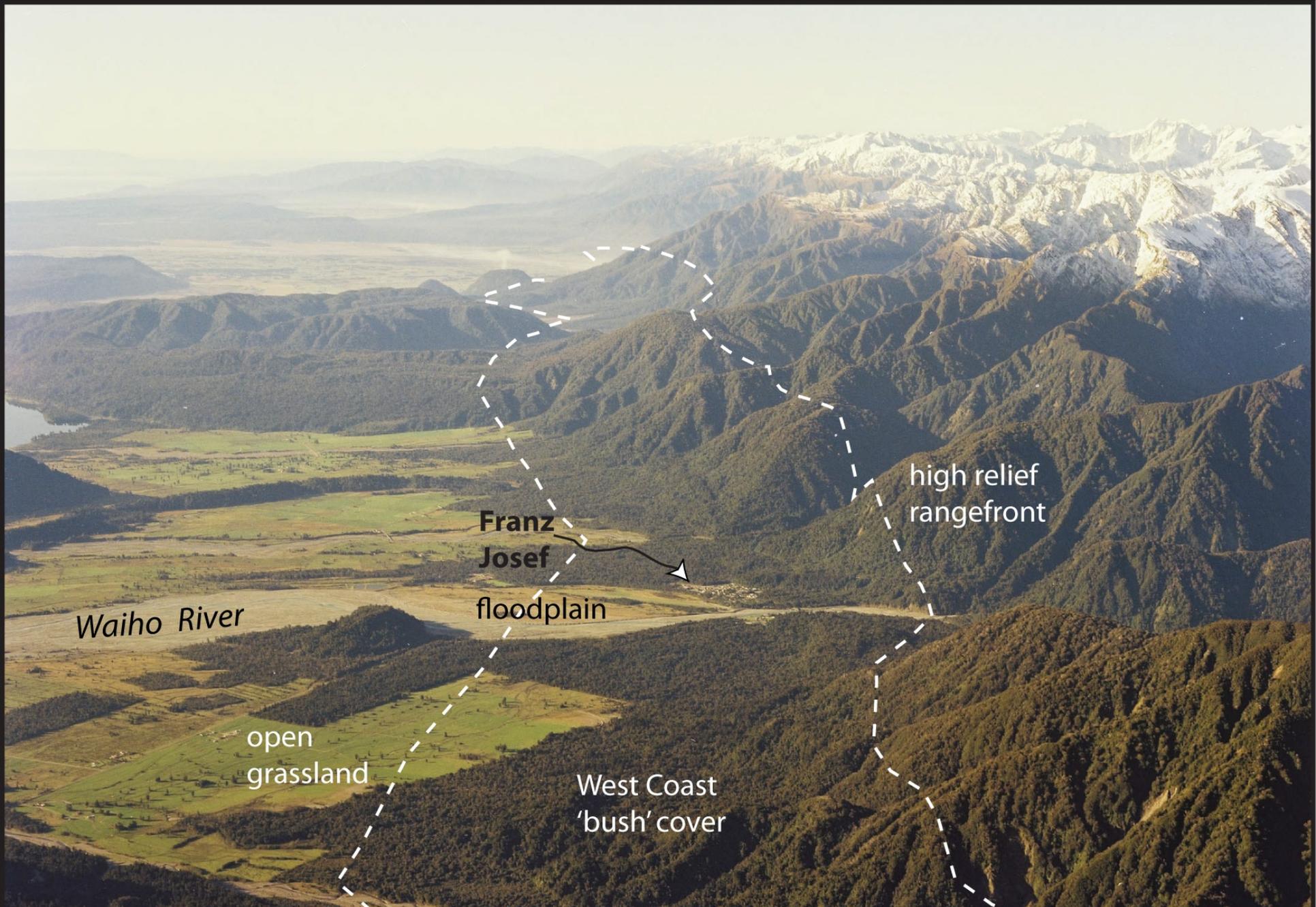
Campbell Plateau

Auckland Island

Campbell Island

Macquarie Ridge





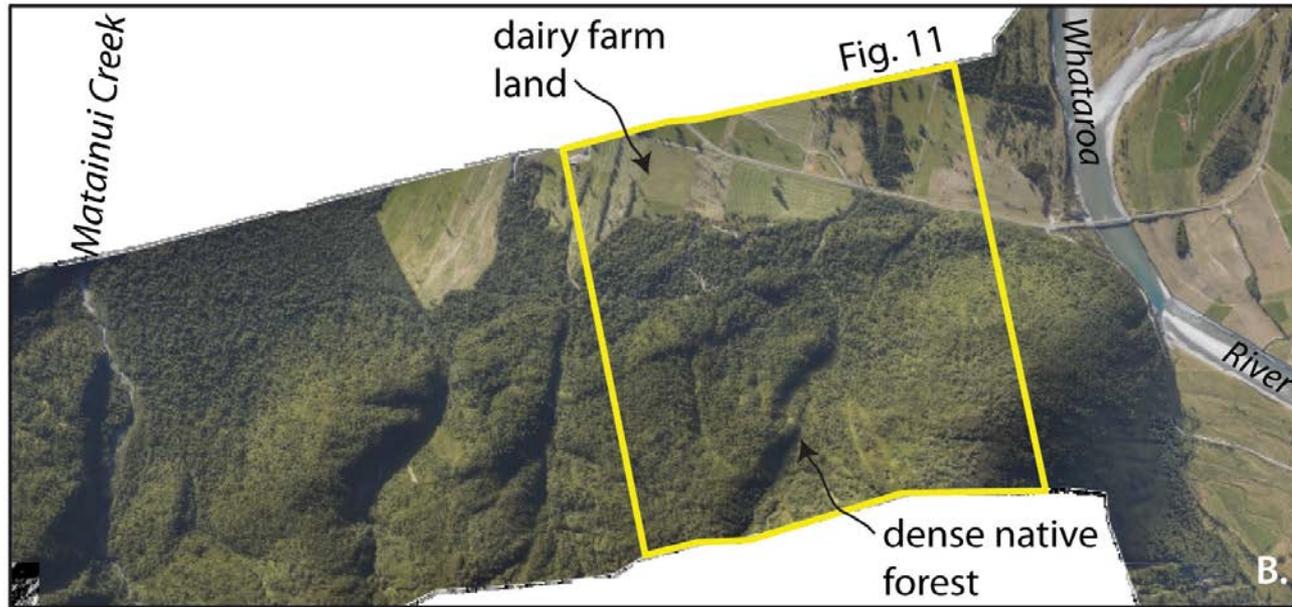
Waiho River

Franz  
Josef  
floodplain

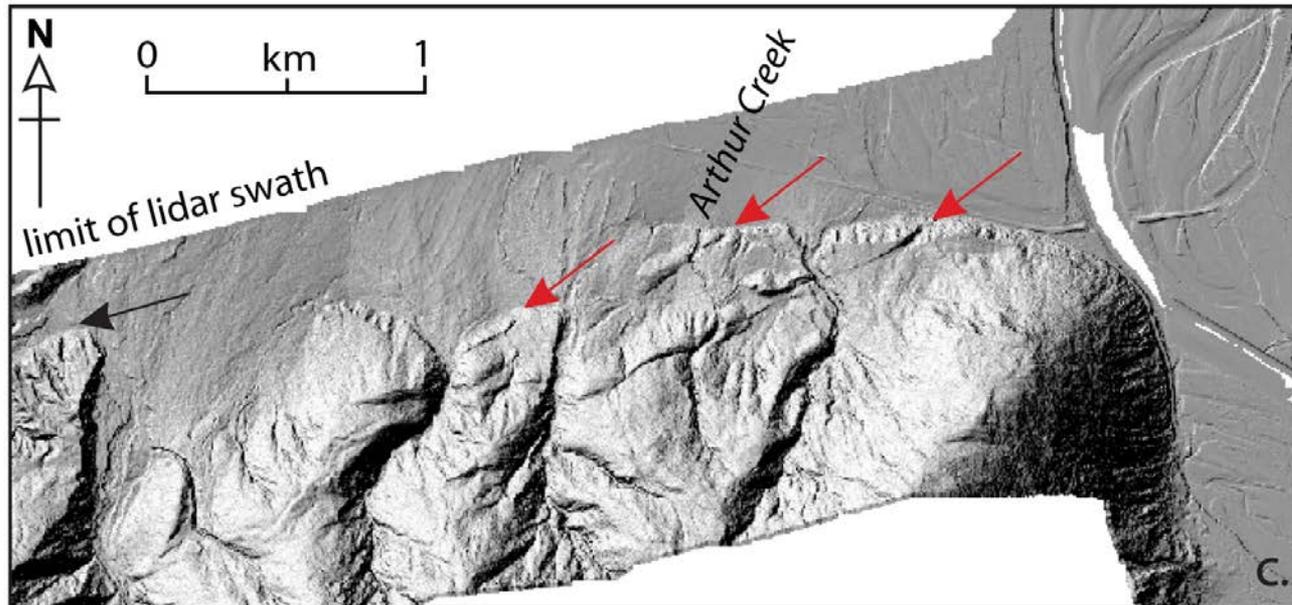
open  
grassland

West Coast  
'bush' cover

high relief  
rangefront



Whataroa River  
Orthophoto



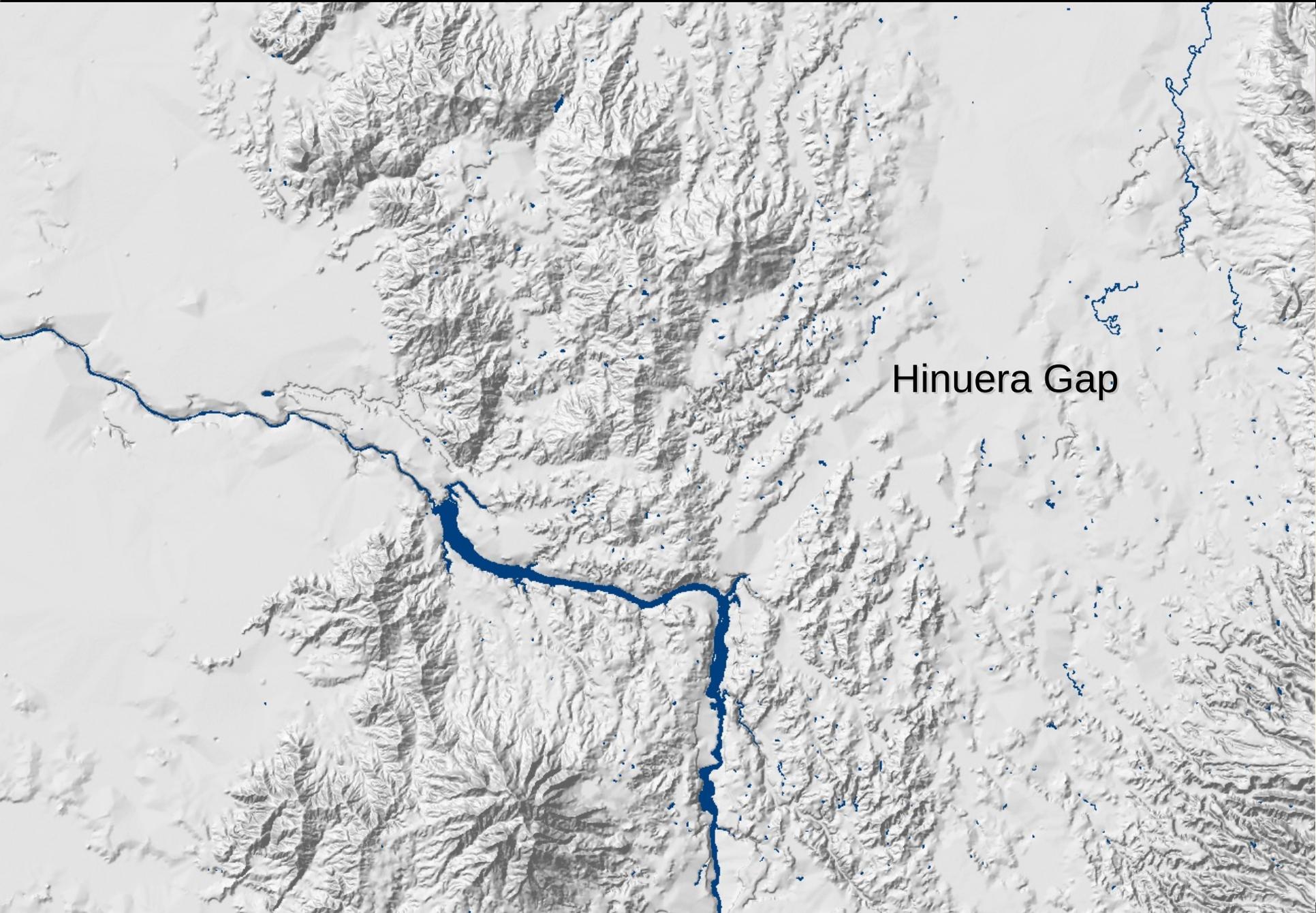
Whataroa River  
2m Lidar DEM



Lake Taupo

Waikato River  
today





Hinuera Gap

# Earthquakes - 15,000/yr

## Magnitude and Frequency

- 4-5 1/day
- 5-6 2/month
- 6-7 2/year
- 7-8 1 every 3 years
- >8 1 every 100 years

Christchurch 7.1 (Sep 2010),  
6.3 (Feb 2011)

Dusky Sound 7.8 (2009)

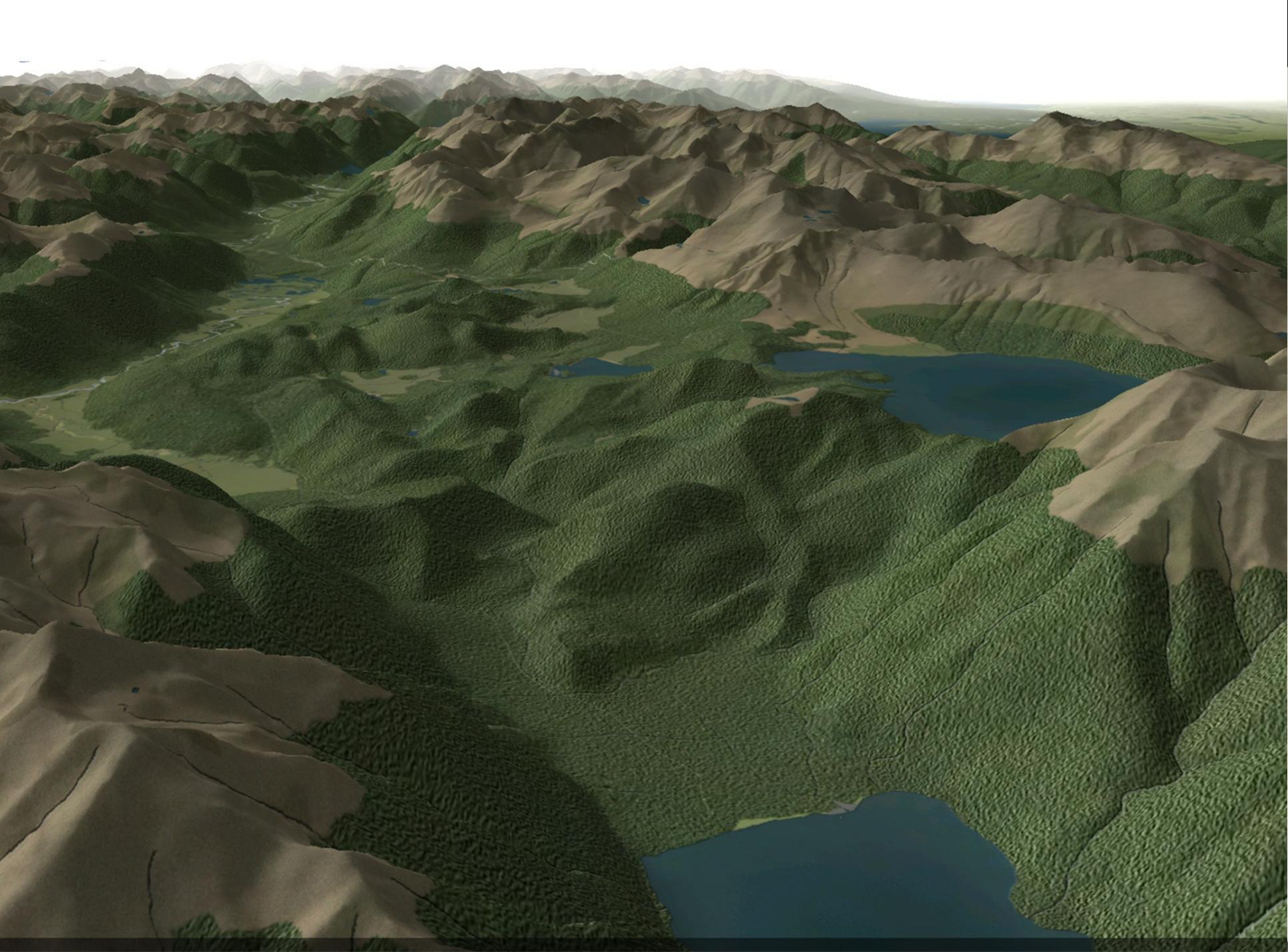




Green Lake landslide







Lake Waikaremoana  
landslide



# Lake Waikaremoana

