

### 1) SHIRE

Two-ship OBS/2D MCS

- -Stations on land
- -OBS deployments
- -Long streamer MCS

Nov 1<sup>st</sup> – Dec 7<sup>th</sup>

#### 2) NZ3D

3D mcs – 15 x 60 km -OBS and land instruments Jan 6<sup>th</sup> – Feb 9<sup>th</sup>

## 3) SISIE

2D OBS/MCS

- -UTIG OBS
- -Long streamer MCS Feb 13<sup>th</sup> – Mar 12<sup>th</sup>

# Science Goals

#### SHIRE

- Crustal scale structure of the subduction zone and variation along the margin
- Deep sediment and seamount subduction;
- Structure of the Hikurangi plateau (subducting crust)

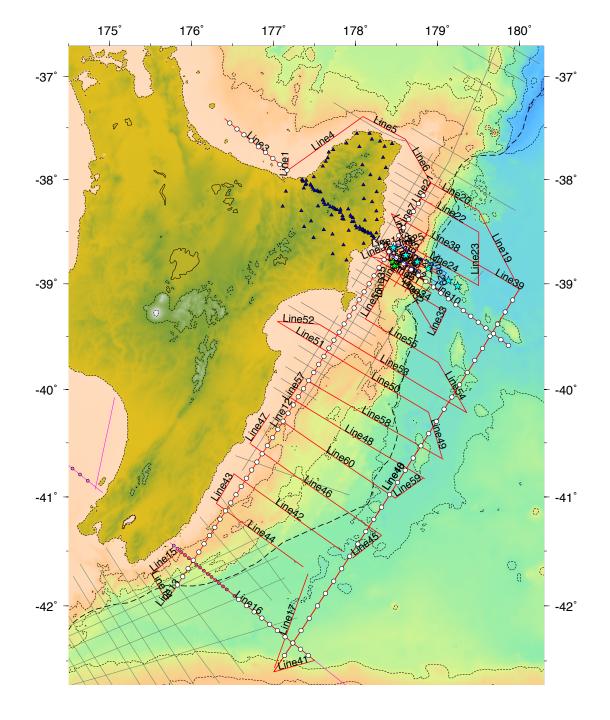
#### NZ3D

 Development of the megathrust its relation to slow-slip earthquakes.

#### SISIE

 Subduction initiation along the Puysegur trench





## **SHIRE**

R/V Langseth & R/V Tangaroa



104 – Land Stations



110 – Japanese OBS deployments



1443 km OBS lines



4046 km MCS lines (12.7 km streamer) 102% of planned

#### **Students**

3 – Imperial College

2 - UT-Austin

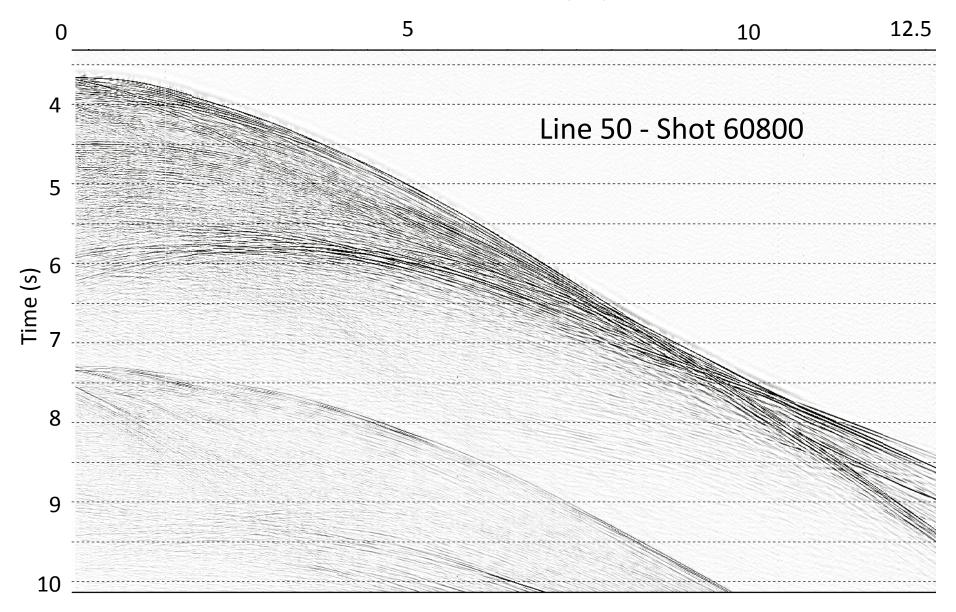
1 – Otaga University

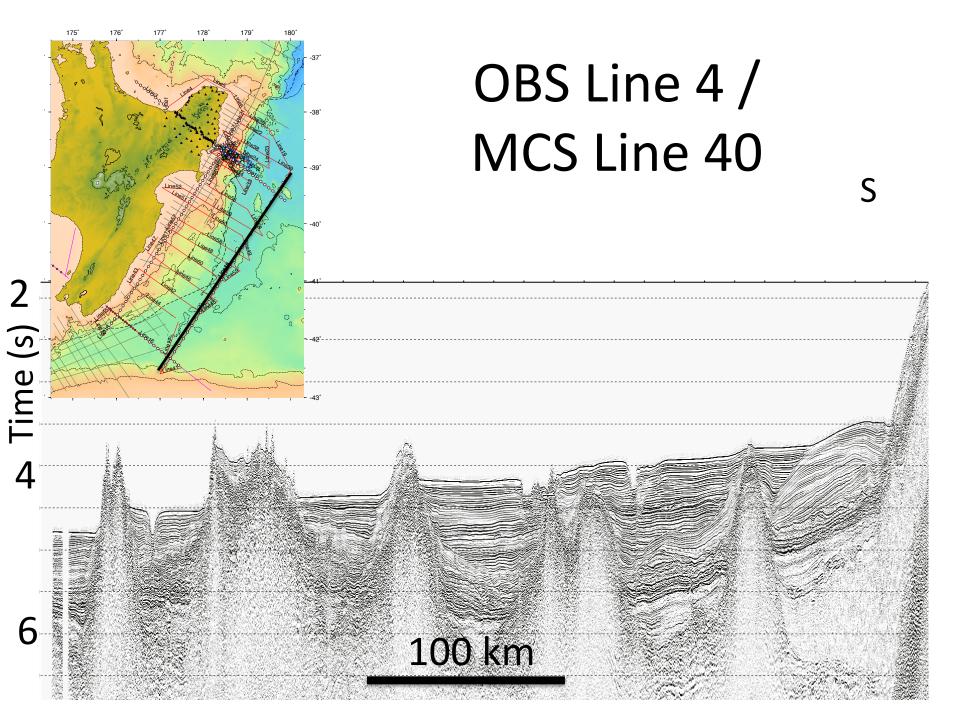
1- University of Auckland

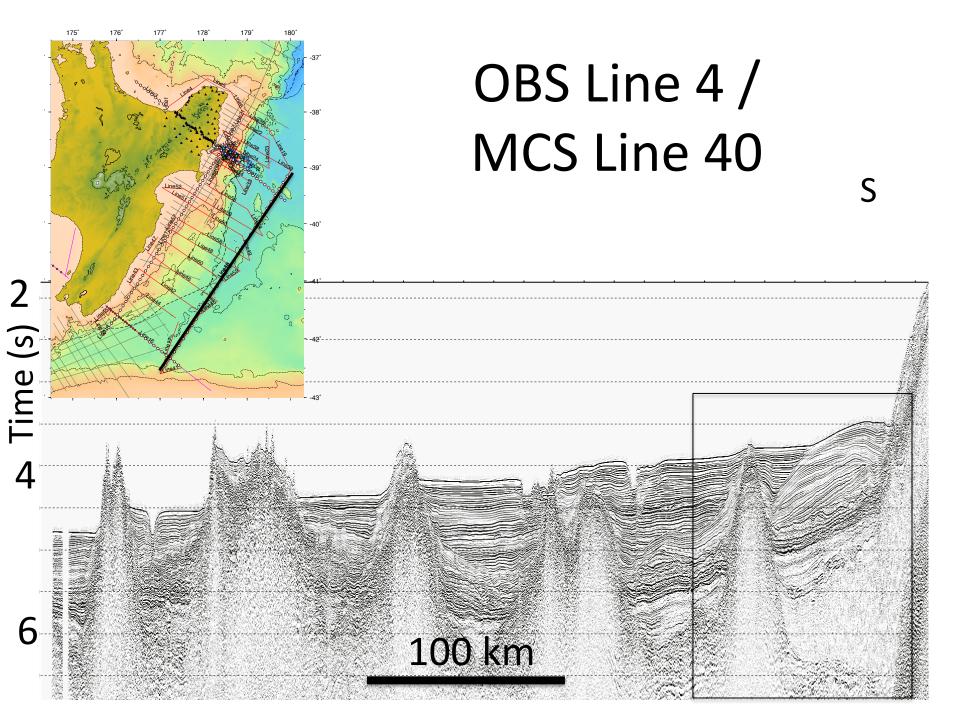
#### Postdoc

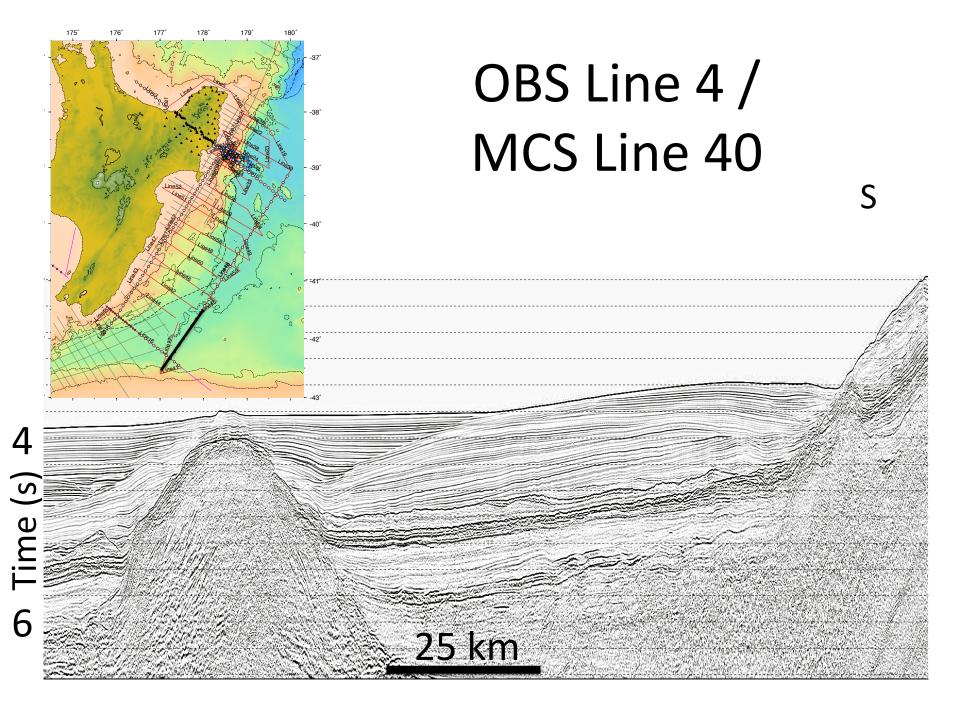
1- GNS Science

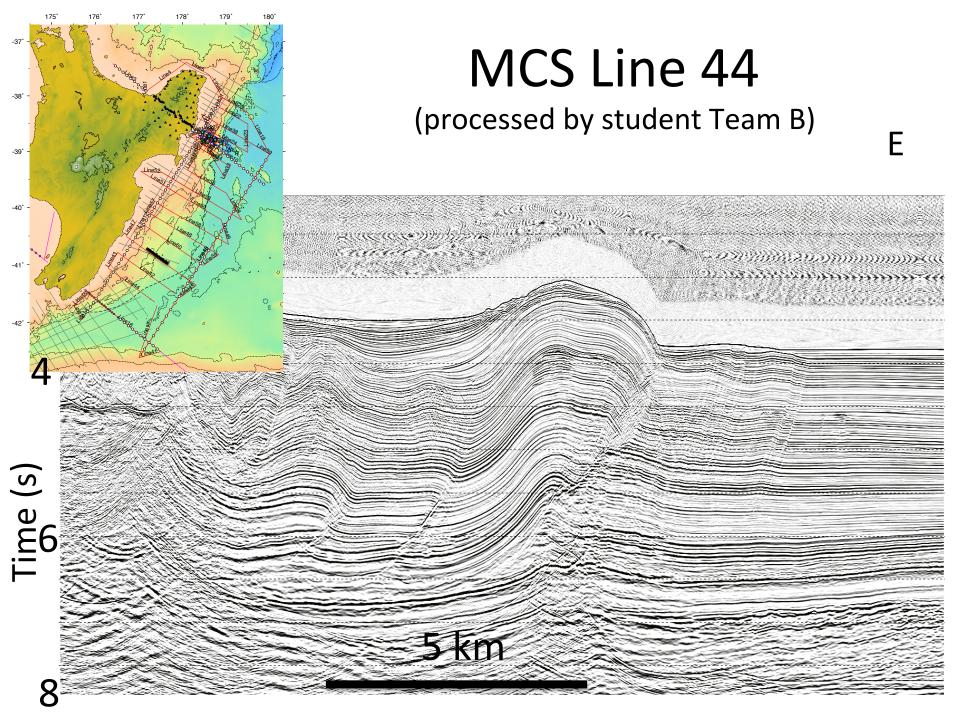
Source-receiver offset (km)

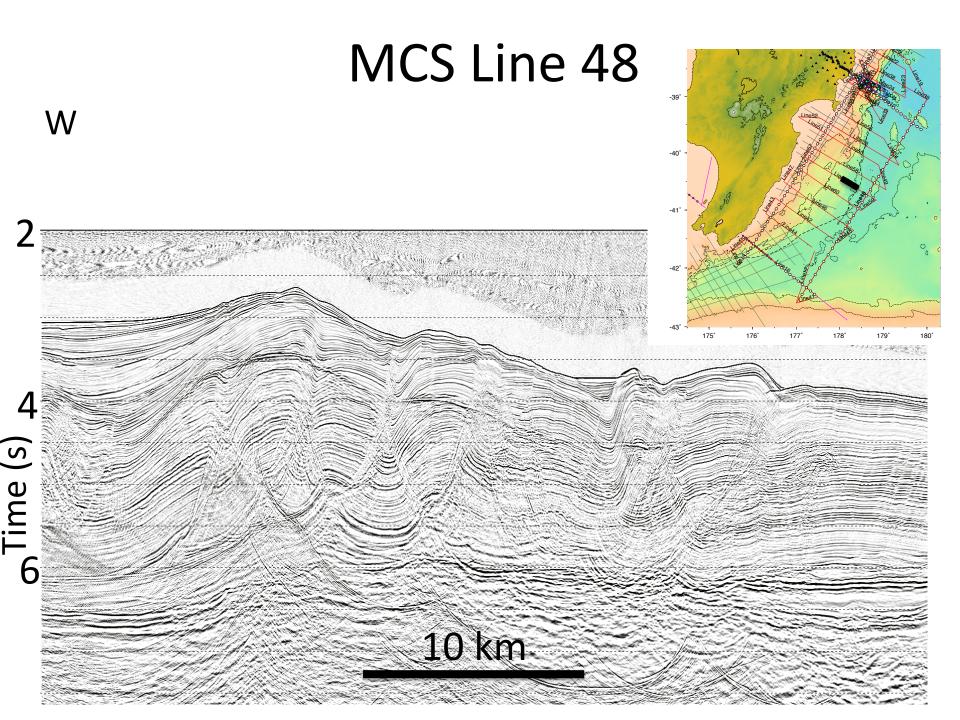


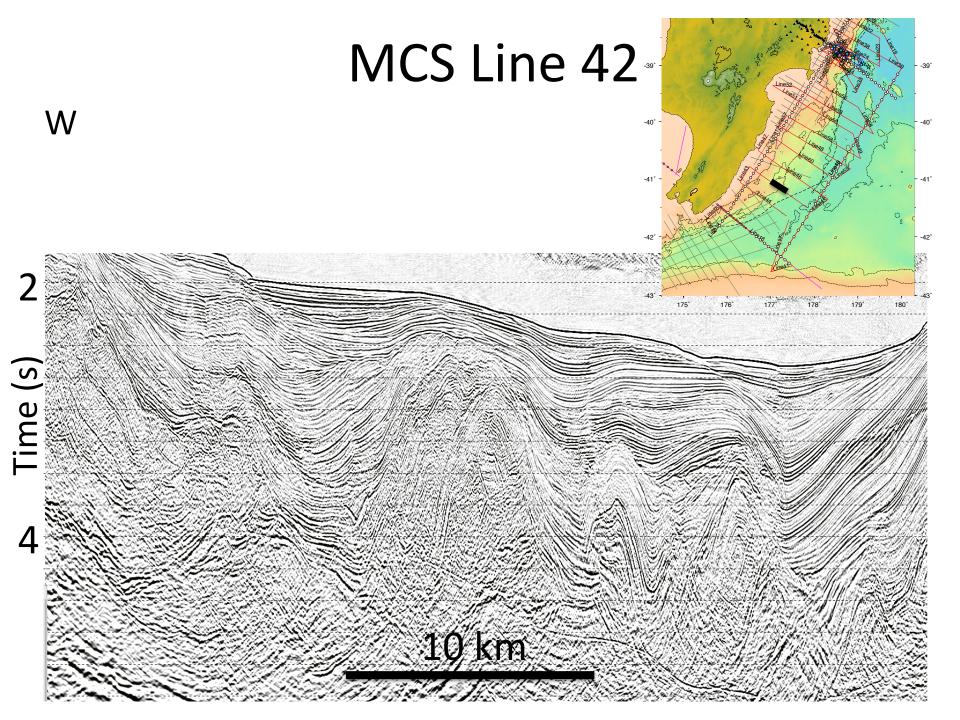


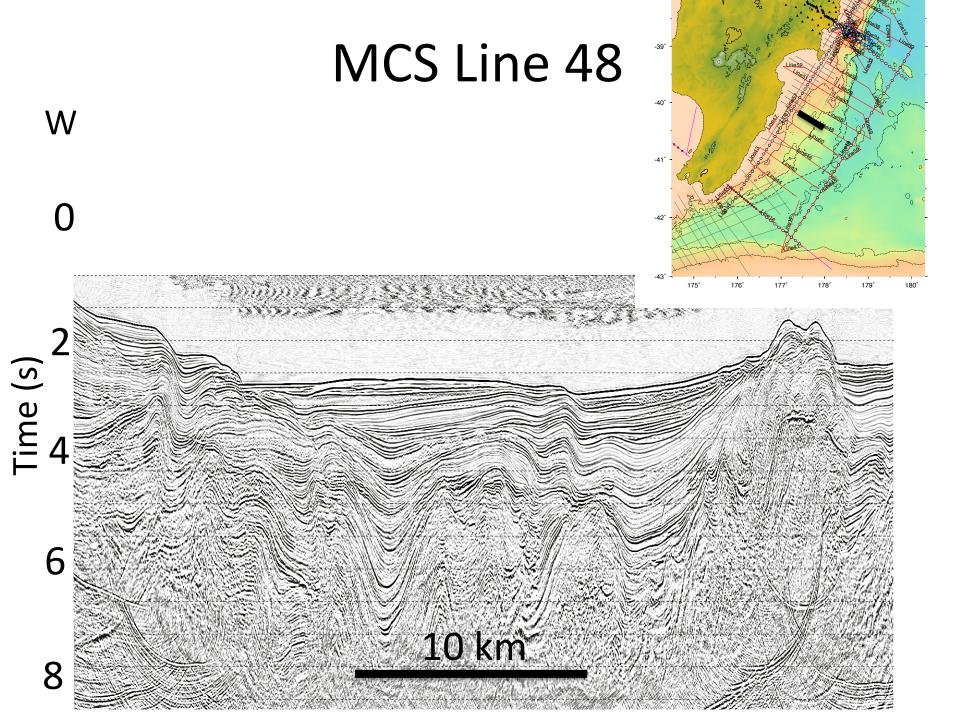




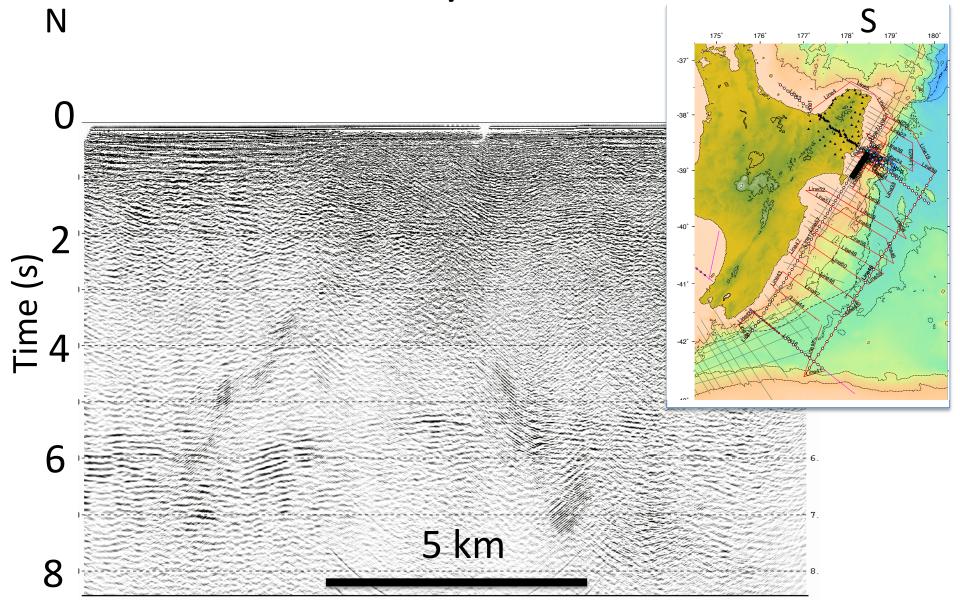




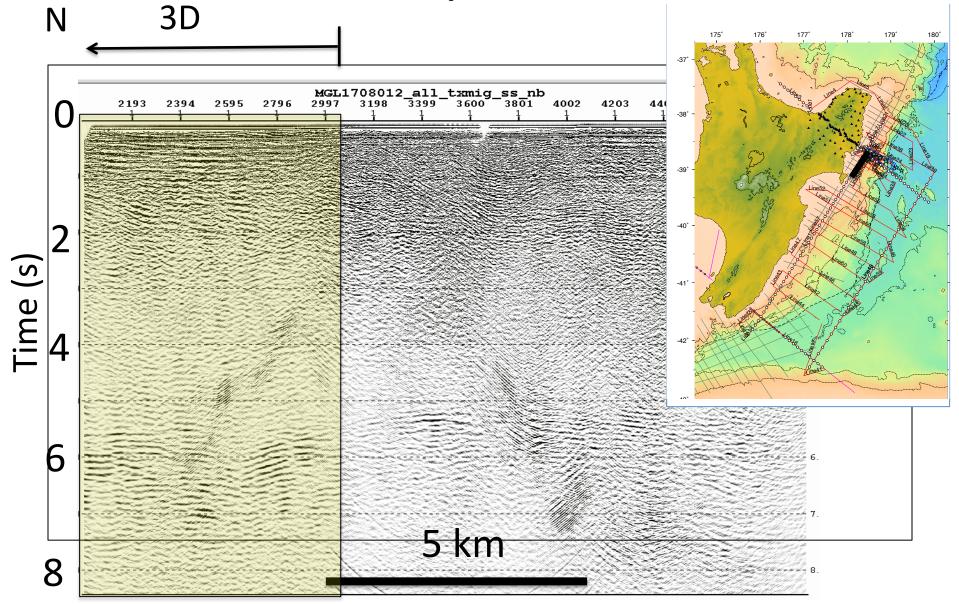




# OBS Line 3/MCS Line 12

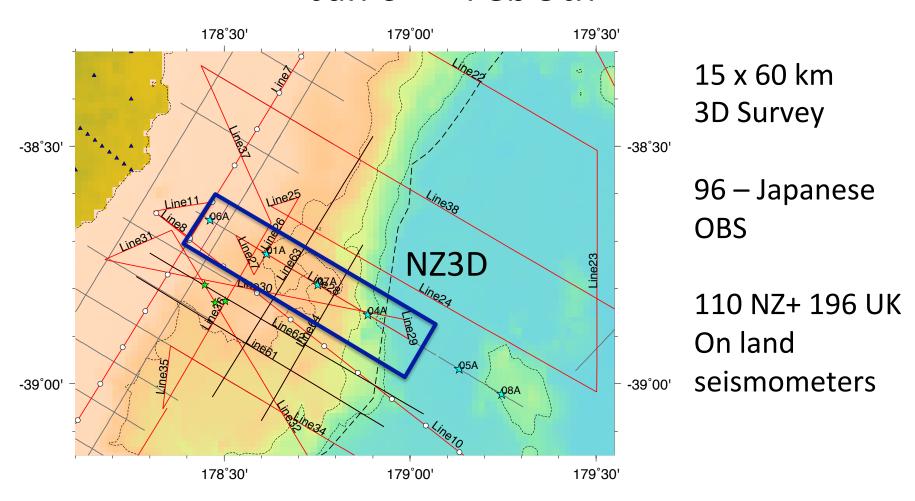


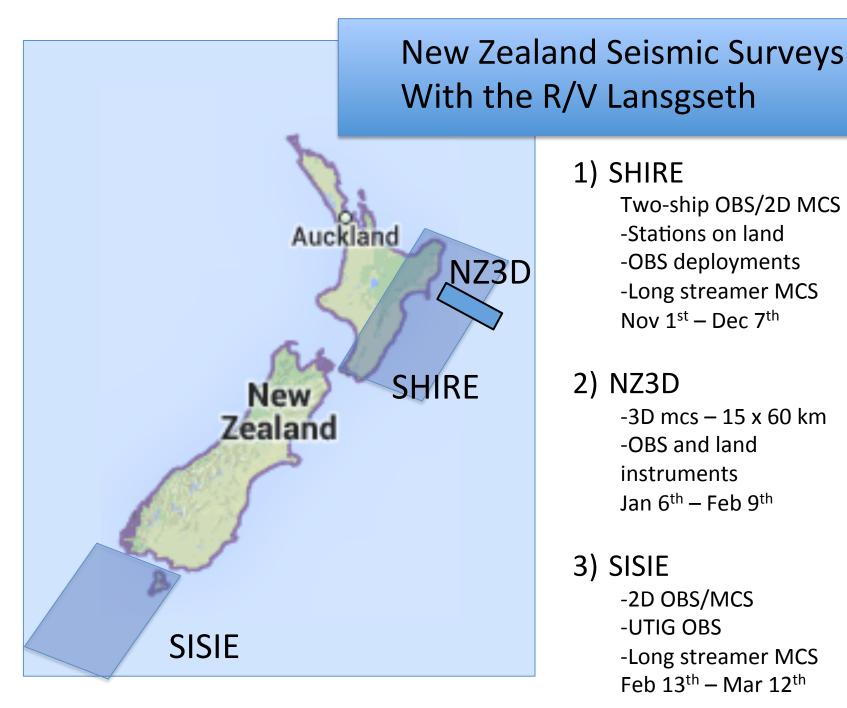
# OBS Line 3/MCS Line 12



# NZ3D

## Jan 6<sup>th</sup> – Feb 9th





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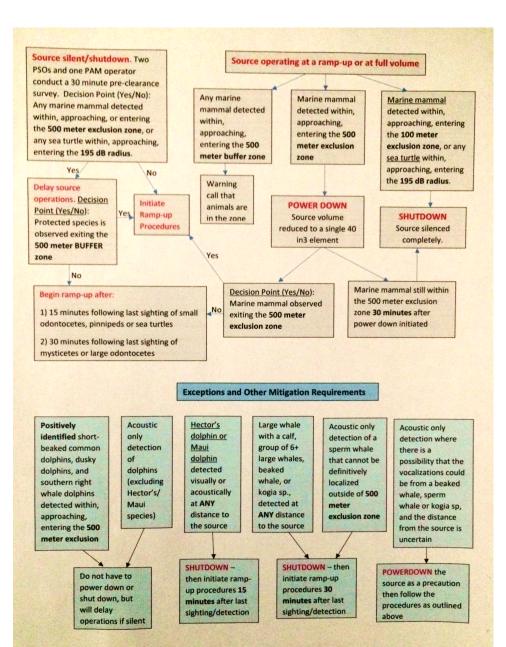
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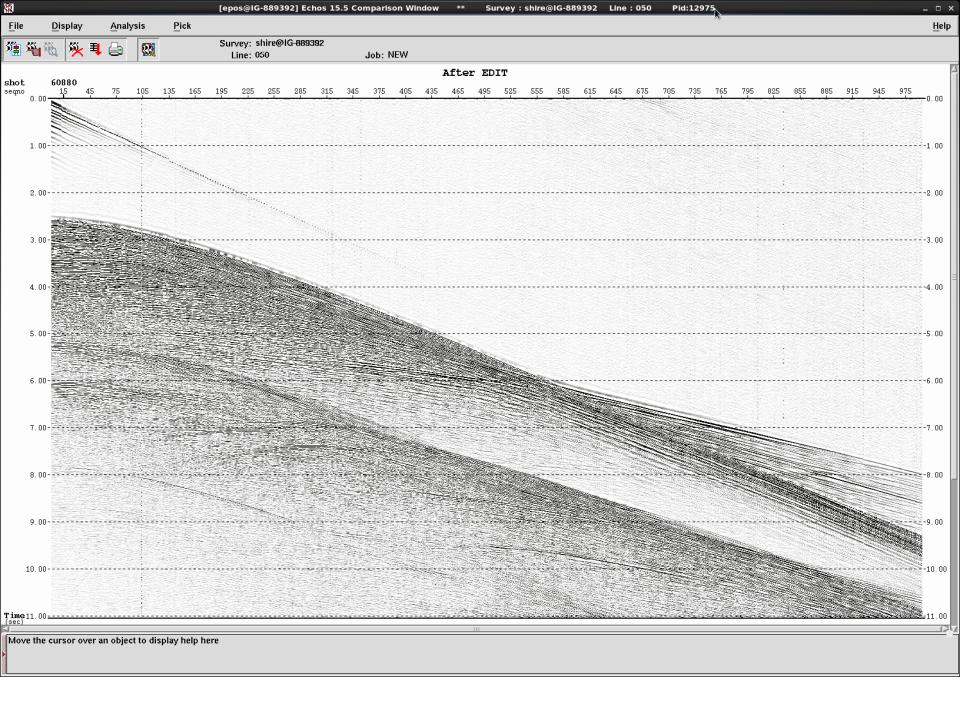
- $-3D \text{ mcs} 15 \times 60 \text{ km}$
- -OBS and land instruments

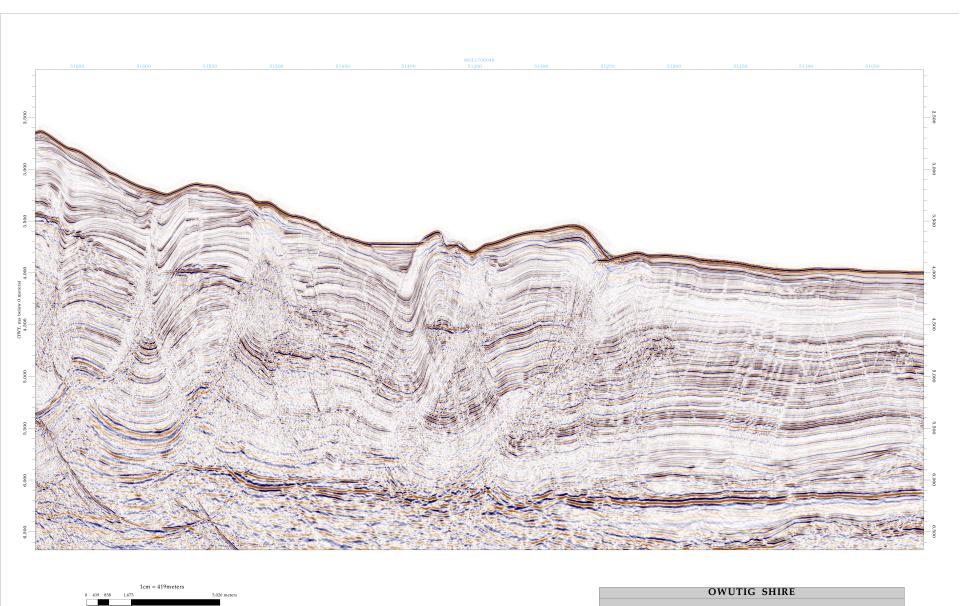
Jan 6<sup>th</sup> – Feb 9<sup>th</sup>

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- -Long streamer MCS Feb 13<sup>th</sup> – Mar 12<sup>th</sup>







Vertical Scale 1cm = 107ms