Geological Map of the Livingstone Fault at Serpentine Saddle

Shear zone lithologies
- Scaly serpentinite
- Massive serpentinite
- Rodingite (and blackwall rim)
- Chromitite
- Metasomatised zones

Wall rocks
- Schist (variably metasomatised)
- Metagabbro

Structures
- Scaly fabric (observed)
- Scaly fabric (inferred)
- Fault
- Fracture
- Discrete pods in shear zone

Measurements
- Scaly fabric
- Dyke margin
- Pod margin

Dun Mountain Ophiolite wall rocks

Caples Terrane wall rocks

Scree. No large pods outcrop.

Serpentine Saddle

Rodingite dykes

Viewpoint fig. 7a

Viewpoint fig. 7b

Viewpoint fig. 7f

Viewpoint fig. 7g

Sample fig. 8a

Sample fig. 8b

fig. 7c

fig. 7d,e

A_1 B_1 B_2 A_2

6500 6600 6700

4300 4400 4500 4600

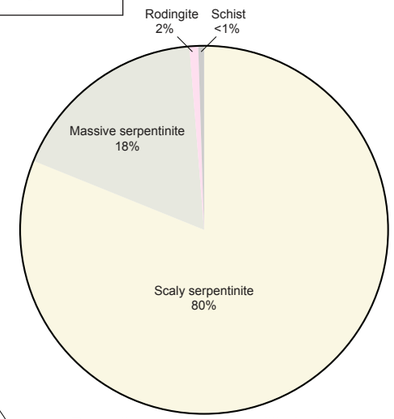
1240 1250 1260 1270 1280 1290 1300

N

metres

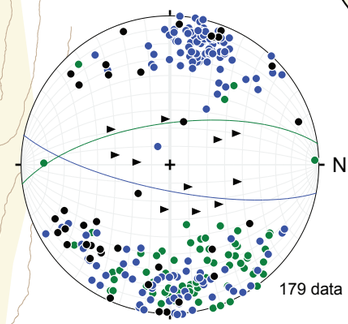
0 50 100

NZGD2000 / New Zealand Transverse Mercator 2000



Proportions of shear zone lithologies (excluding scree covered areas)

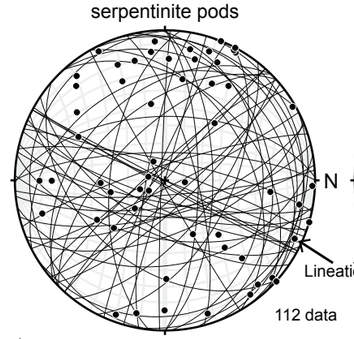
i) Serpentinite fabric



179 data

- poles to S foliation
- poles to C shear bands
- poles to undifferentiated foliation
- lineations on undifferentiated foliation

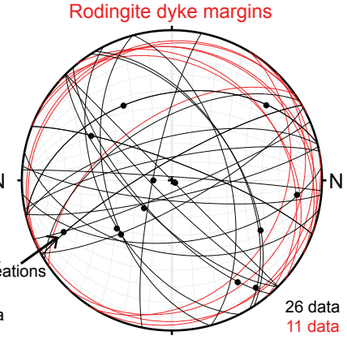
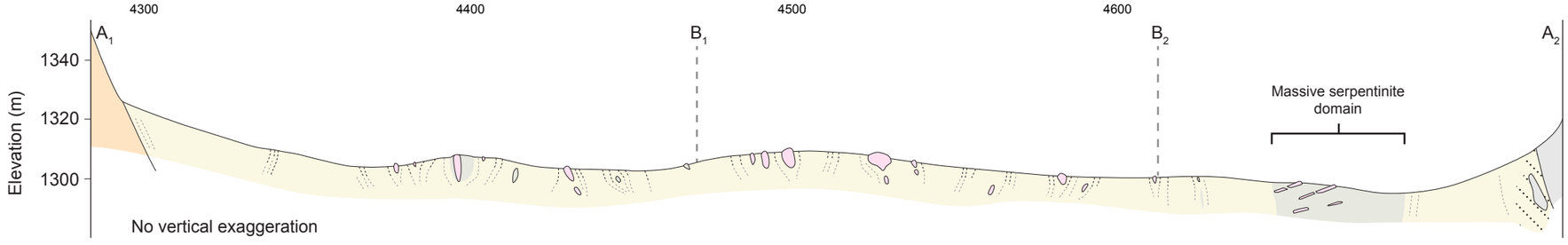
ii) Fractures in massive serpentinite pods



Lineations

112 data

iii) Rodingite pod margins
Rodingite dyke margins



26 data
11 data