3.14 Lake St Clair (Tas.) topographic map extract

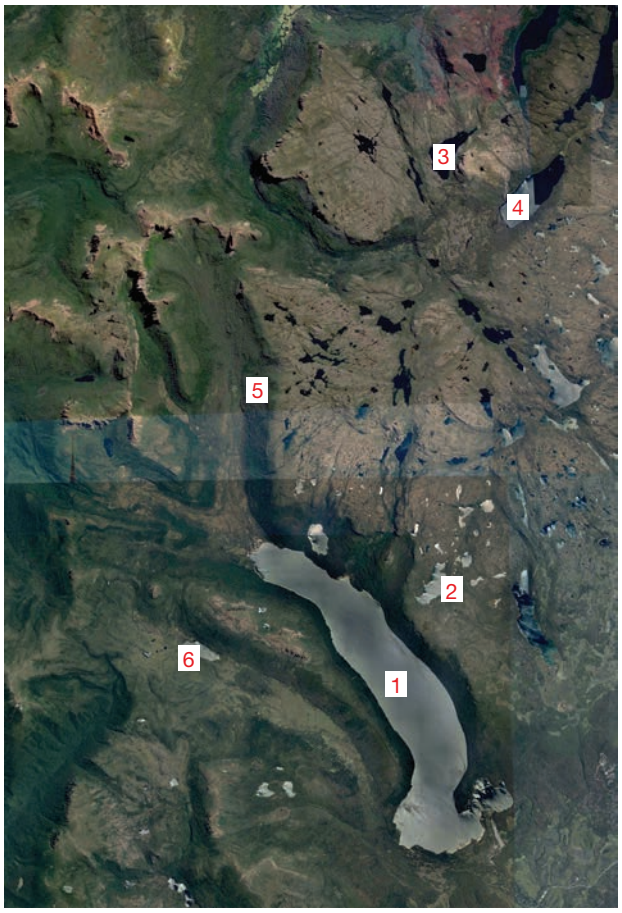


Figure 3.14a Satellite photograph of Lake St Clair, Google Earth, © 2016 Google, Image © 2016 CNES / Astrium

Lake St Clair is a lake in the central highlands of Tasmania. It forms part of the Cradle Mountain–Lake St Clair National Park. It has an area of approximately 45 km^2 and a maximum depth of 200 m. This makes it Australia's deepest lake.



Figure 3.14b Cradle Mountain viewed from Dove Lake



SCALE 1:100 000

2000m 0 2 4 6km

1mm on this map represents 100 metres on the ground. Grid values are 10,000m internals of MGA Zone 55.

ACTIVITIES

1 What is the scale of the map?

2 What is the contour interval used on the map extract?

3 Identify the feature of the biophysical environment located at:
- a GR 189516
- b GR 195541
- c GR 272599
- d GR 345390.

4 Identify the feature of the constructed environment located at:
- a GR 254581
- b GR 346384
- c GR 254496
- d GR 318370.

5 What type of landform features are found in AR 2246?

6 What type of vegetation is found at GR 230620?

7 What tributary joins Narcissus River at GR 251515?

8 What river flows from Lake Petrarach (GR 243439) to Lake St Clair in AR 3137?

9 What is the direction of flow of Hamilton Creek in AR 2148?

10 In what direction is the Alma River flowing in AR 1941?

11 What type of recreational activity is available in AR 2457?

12 What is the direction of Castle Crag (GR 251598) from Walled Mountain (AR 1856)?

13 What is the bearing of:
- a Mt Ida (GR 3047) from Mount Gould (AR 2152)
- b Mount Ossa (GR 198641) from Cathedral Mountain (GR 202623)
- c Mount Spurling (GR 310525) from Lamonts Lookout (GR 250451)?

14 What is the aspect of the slope in:
- a AR 2063
- b AR 3041
- c AR 2544
- d AR 2745?

15 What is the straight-line distance between the summit of Mount Ossa (AR 1964) and Mount Byron (AR 2246)?

16 What is the length of the Lake St Clair ferry run from the jetty at GR 317372 to the jetty at Narcissus Bay (AR 2548)?

17 Estimate the area of Lake Meston in the north-east quadrant.

18 What is the elevation of:
- a Lake Marion
- b Lake St Clair
- c Lake Helen (AR 2645)?

19 What is the elevation of the lake found on Gould Plateau?

20 What is the difference in elevation between Mount Olympus (GR 270448) and Mt Ida (GR 308478)?

21 What is the difference in elevation between Lake St Clair and Mount Byron?

22 Construct the cross-section between Mount Olympus (GR 270448) and Mt Ida (GR 308478).

23 Estimate the local relief experienced in a traverse from the summit of Mount Olympus to the shores of Lake St Clair (GR 283455).

24 Construct the cross-section from the summit of Mount Olympus (GR 269447) to the summit of Mount Ida (GR 305475). Use a vertical scale of 1 cm = 250 m.

25 Calculate the vertical exaggeration of the cross-section that you constructed in Activity 24.

26 Construct the cross-section from the peak at GR 243383 to the summit of Mount Rufus (GR 255358). Use a vertical scale of 1 cm = 250 m.

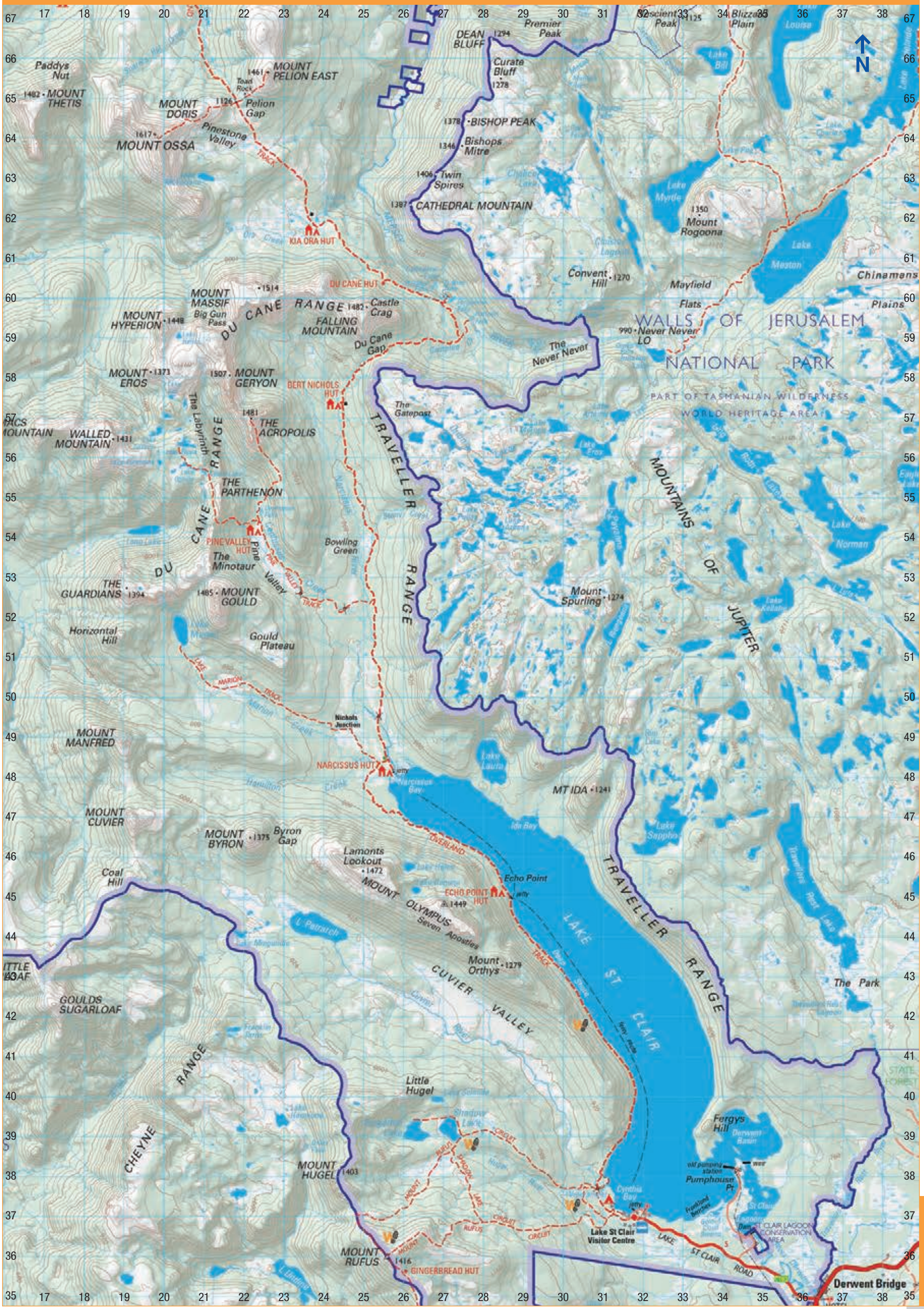
27 Calculate the vertical exaggeration of the cross-section that you constructed in Activity 26.

28 Write a paragraph outlining why the area shown on the map extract is suited to the production of hydro-electricity.

29 Study Figure 3.14a and the map extract. Identify the features numbered 1–6.

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Cambridge University Press

Lake St Clair topographic map extract (Lake St Clair: latitude 42°10′S, longitude 146°22′E)



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