

U. SHORES

Field Note U10b1. Koppie Alleen shore – Morphology and geology



Oblique aerial view to the north on Koppie Alleen.

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Koppie Alleen is situated at the east end of the shifting sand dunes on the south shore of De Hoop Nature Reserve (Figures 1 to 3).



Figure 1. Koppie Alleen area. Top - Topography map (1:50,000). Bottom - geology field sheet (1:50,000, Malan 1984). Three formations of the Bredasdorp Group are present: dark green indicates the aeolianites of the Waenhuiskrans Formation; light green indicates Bredasdorp Group (undivided); Q1 and dotted areas indicates sands of the Strandveld Formation. Light yellow, and the Q2/Tb symbol indicate sediments of Quaternary over Bredasdorp Formation.

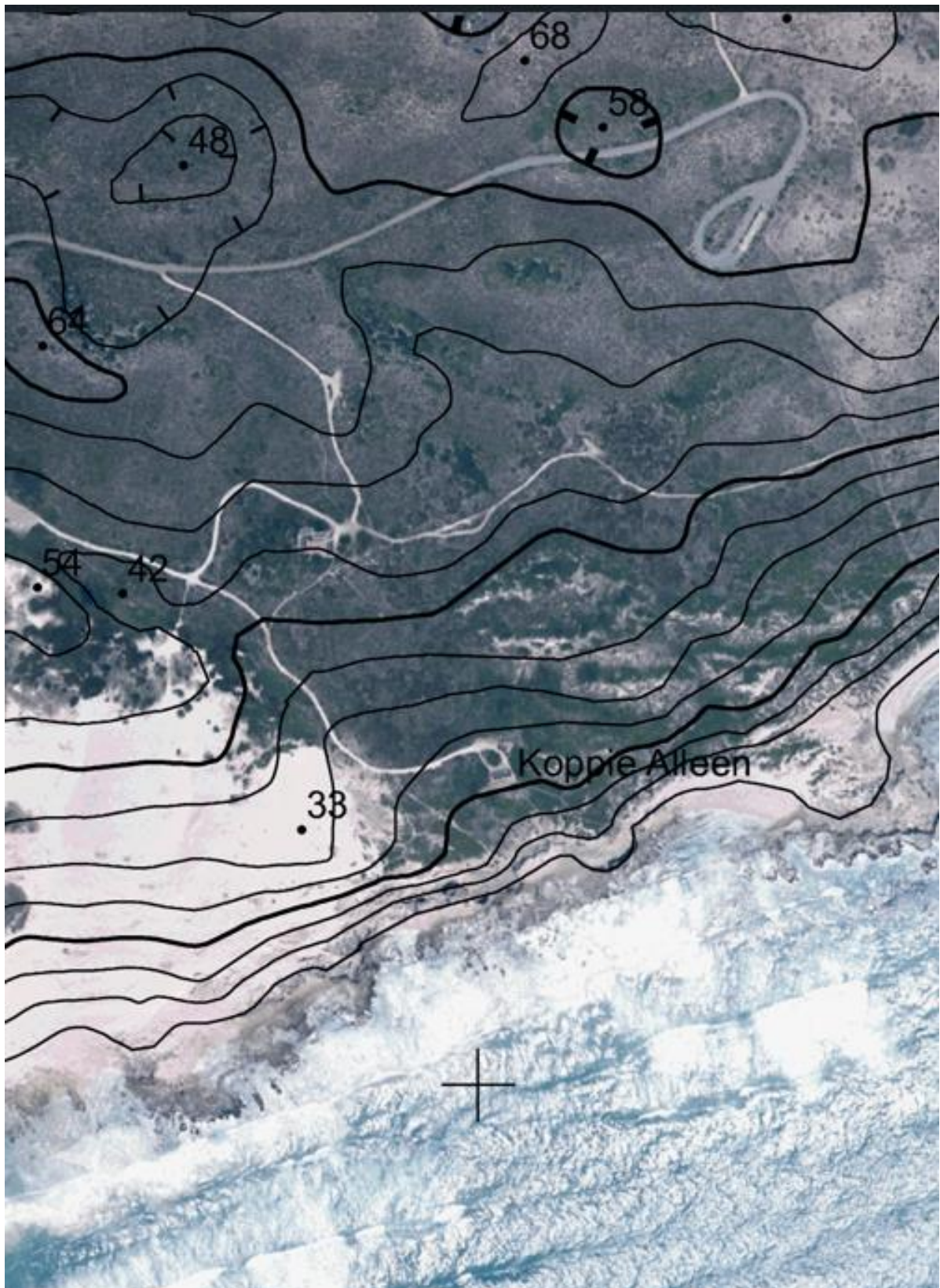


Figure 2. Topography map (1:10,000) of Koppie Alleen area.



Figure 3. The path to the house with explanatory boards (top) and to the shore (bottom).
Source: The Internet.

The Koppie Alleen shore is where a disintegrating Waenhuiskrans Formation ridge is forming the shoreline, together with abrasion tables and sandy, pocket beaches (Figures 4 to 8).



**Figure 4. The path leading west, on the Waenhuiskrans Formation ridge. Top - view to the west.
Bottom – view to the east.**



Figure 5. West of Koppie Alleen. Top and bottom – the disintegrating Waenhuiskrans Formation ridge.



Figure 6. West of Koppie Alleen. Top and bottom – the disintegrating Waenhuiskrans Formation ridge crop out of the sand cover.



Figure 7. West of Koppie Alleen. Top and bottom – ridge and abrasion tables.



Figure 8. East of Koppie Alleen. Views to the west. Top and bottom – ridge and sandy, pocket beaches.

Koppie Alleen is situated on the boundary between two sandy formations – the windblown dunes in the west (the Strandveld Formation – the youngest formation of the Bredasdorp Group) and older, vegetated and stabilised sand in the east, which the geology map says is Quaternary sand, (and not part of the Bredasdorp Formation) (Figure 9).

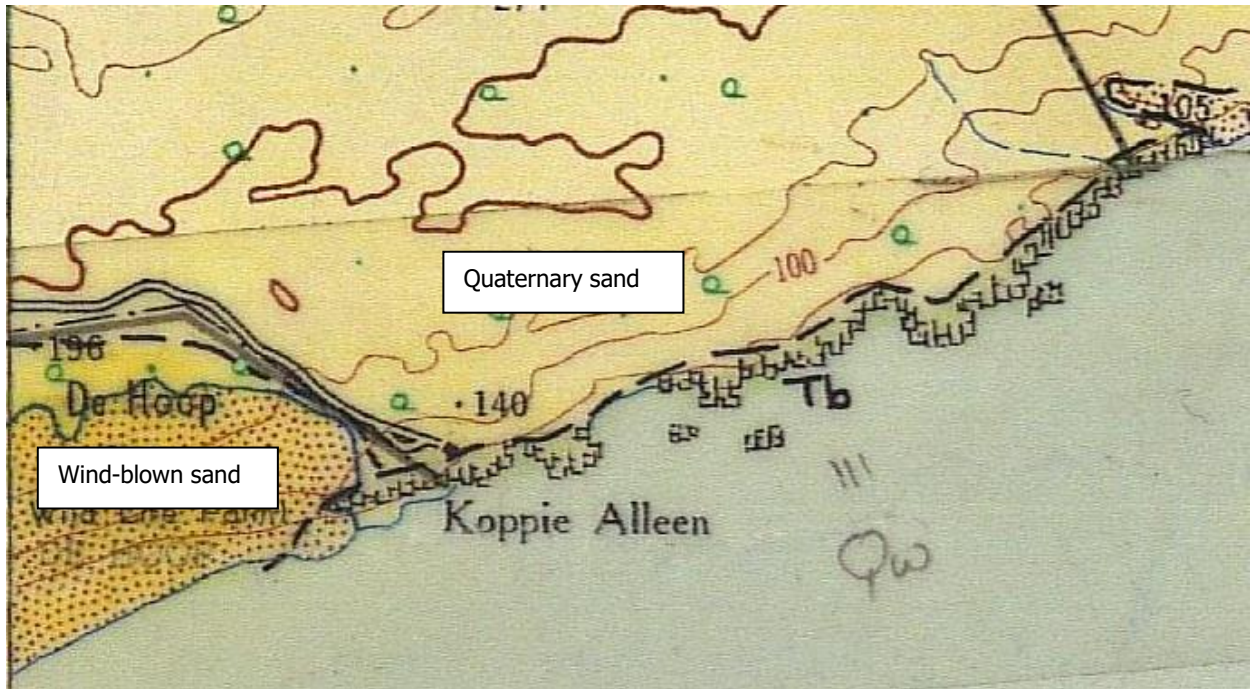


Figure 10. Koppie Alleen between two different sand formations.

Read the debate about Quaternary sediments in this area in Chapter W.