

## D. DURICRUSTS

### Field Note D2a. Calcrete on the Bokkeveld Formations

Calcrete over the Ceres Formation of the Bokkeveld Group is widespread on the Bradasdorp Plain (Figures 1 to 8).

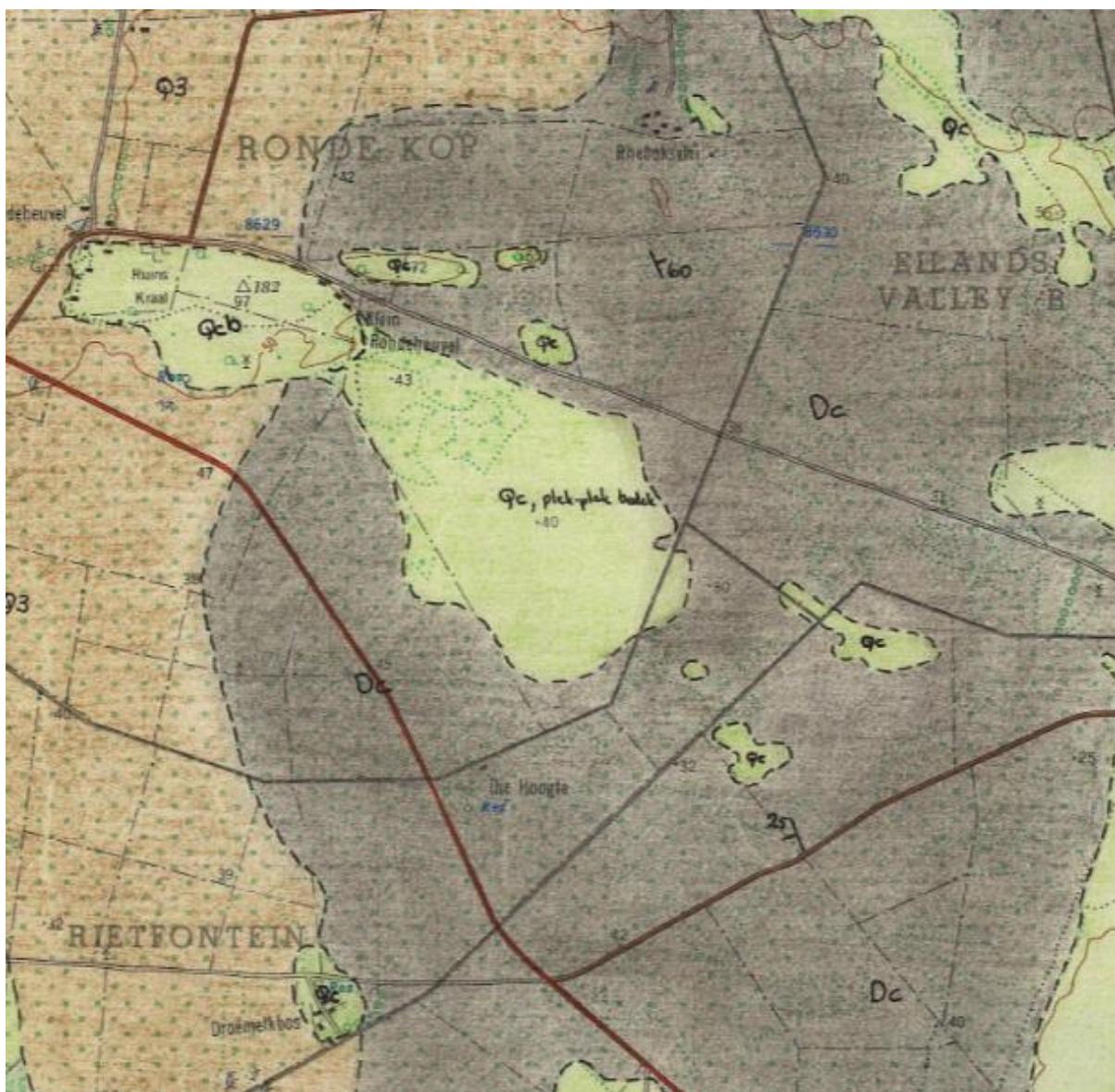


Figure 1. Geology map of a section of the Bredasdorp Plain, showing the Ceres Formation (grey) of the Bokkeveld Group.



**Figure 2. Satellite image of the area shown in Figure 1.**



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**Figure 3. Calcrete cover on the Ceres Formation.**



**Figure 4. Calcrete on the Ceres Formation. Compact calcrete chunks (top) are heaped on calcrete patches (middle) or on the protruding shales (bottom).**

Calcrete on the other formations of the Bokkeveld Group is shown in Figures 5 to 9.



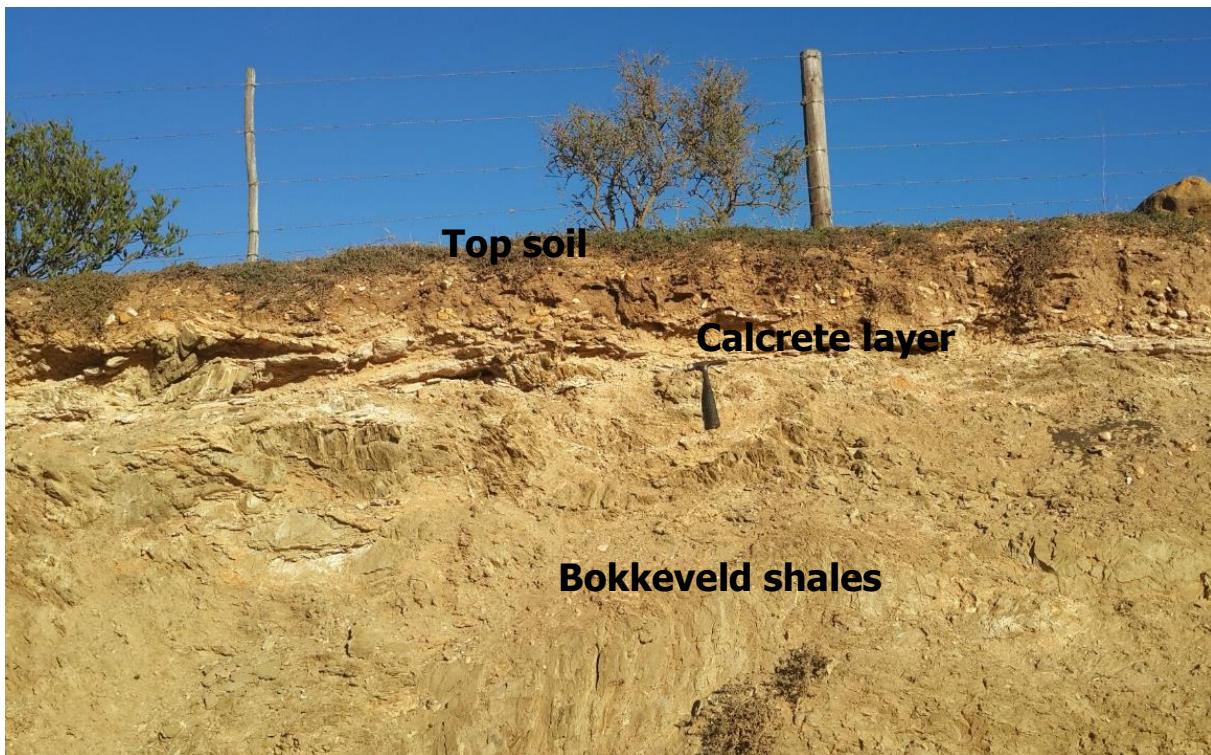
**Figure 5. Calcrete (arrow) at the top of a shale outcrop of the Rietfontein Formation.**



**Figure 6. Gravel (yellow arrow) cemented by Calcrete at the top of a shale outcrop of the Rietfontein Formation (black arrow).**



**Figure 7. Very thin calcrete on a shale outcrop of the Rietfontein Formation (black arrow). Calcrete (cutans\*)? was formed also in the spaces between the shale laminae (yellow arrows).**  
\*The term cutans is used for a broad group of pedological features, including so-called 'clay skins', associated with the surfaces of the skeleton grains, peds, and various kinds of voids within soil materials.



**Figure 8. Thin (~0.1 to 0.2 m) calcrete layer over Bokkeveld Bidouw Formation shales along a road-cut.**



**Figure 9. Calcrete on the Bokkeveld Bidouw formation shales:** top - satellite image of an area north of the Soutpansvlakte Basin; the light patches (arrows) are calcrete; middle – a patch of disintegrated and broken (by farming machines) calcrete (note that the crop is shorter); bottom – a chunk of the calcrete (brittle, compared with the compact calcrete on the Ceres Formation).