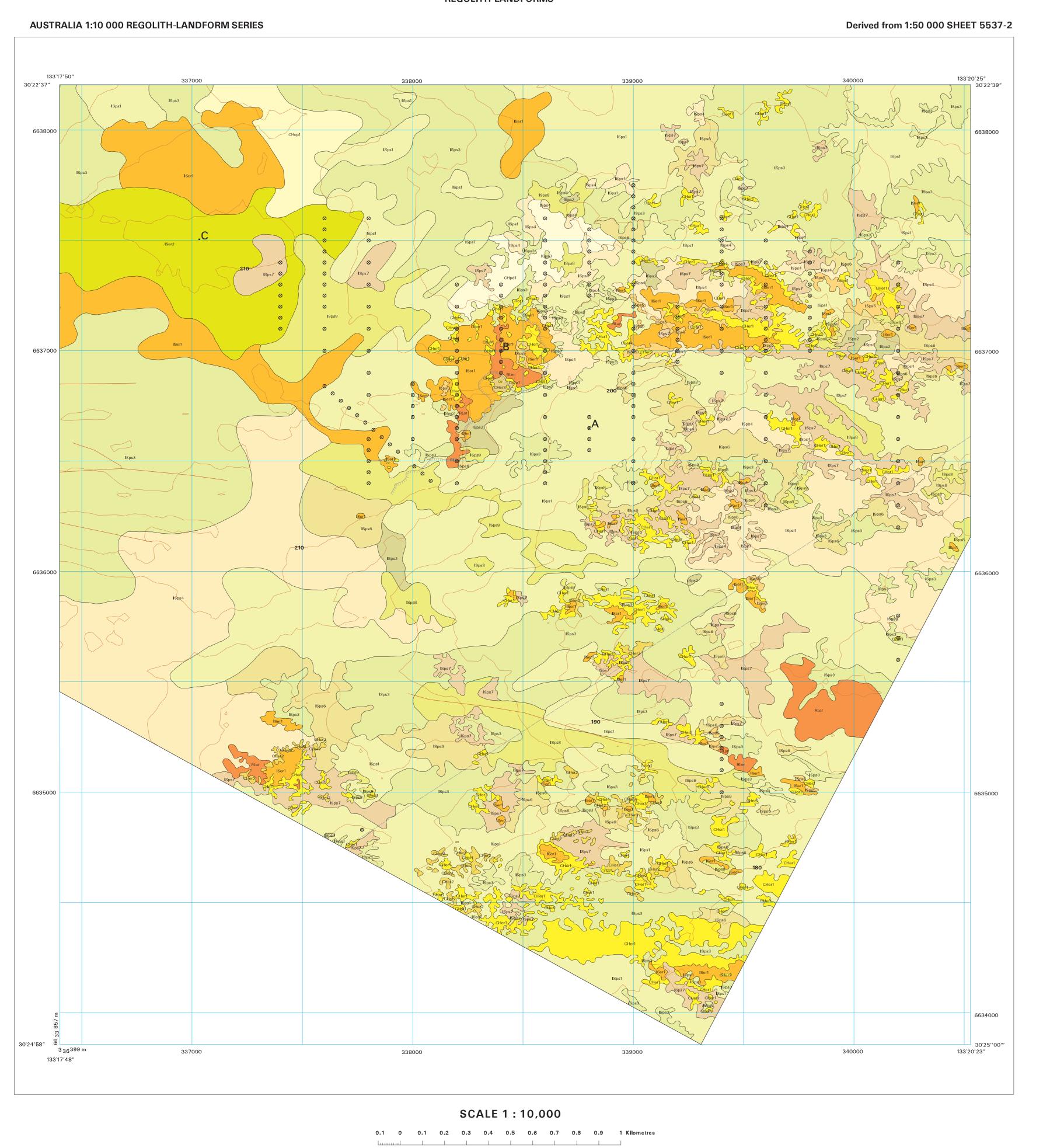
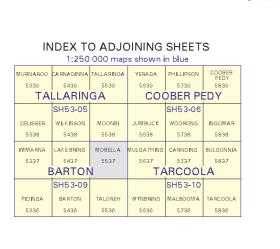
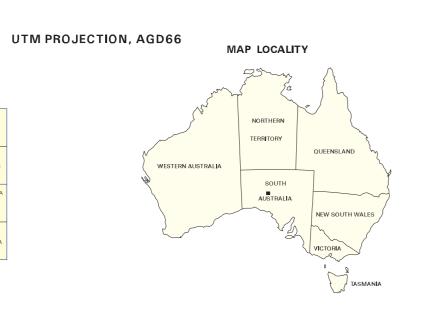
ET GOLD PROSPECT, GAWLER CRATON - SOUTH AUSTRALIA

REGOLITH-LANDFORMS



This map is derived from data supplied in a comprehensive GIS dataset of the ET Gold Prospect, SA and the shows the type and distribution of regolith landform units. These units are distinct patterns of recurring landform elements with characteristic regolith associations. The map represents a systematic analysis and interpretation of 1:50 000 aerial photography, processed Landsat Thematic Mapper (TM) satellite imagery, processed Hyperspectral imagery, a custom digital elevation model and field mapping. Copies of this map may be obtained from: C/- CSIRO Division of Exploration and Mining Private Bag Post Office, WEMBLEY WA 6014 Tel (08) 93336272 Fax: (08) 93336146





Regolith field observations 2000 by M.A.Craig CRCLEME/AGSO Compiled 2001 by M.A.Craig CRCLEME/AGSO Regolith compilation scanned and vectorised by AGSO Spatial Information Mapping Services (SIMS). Map constructed using ArcInfo software by P.Kilgour, CRCLEME/AGSO Orthophoto base information AUSLIG 1984. It is recommended that this map be referred to as: Craig, M.A. 2001: ET Gold Prospect Regolith Landforms (1:10 000) scale map. CRC for Landscape Evolution and Mineral Exploration, Perth/Canberra. CRC LEME is an unincorporated joint venture between the Australian National University, University of Canberra, Australian Geological Survey Organisation (Geoscience Australia) and CSIRO Exploration and

Mining, established and supported under the Australian Government's

Cooperative Research Centres Program.



Aeolian sediments

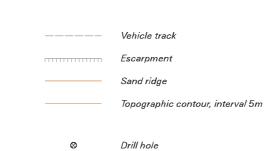
Sandplain on rises - thin and patchy, thicker on lower slopes. Sheetflow and deflation modified crests and flanks exposing: silcrete pebbles, gravel lags with Fe-stained lithic fragments, some calcrete nodules, very rare silcrete cobbles and very rounded quartz pebbles. Sandplain with small exposed bedrock rises and adjacent sheetflow affected flanks. Aeolian sand - crusty, clayey, medium grained, red-brown to yellow. Gravel-pebble lags: silcrete and/or calcrete nodules; rare, angular, vein quartz (white); silicified and Fe-stained lithic fragments. Sandplain consisting of aeolian medium to fine-grained sand, red-brown, slightly calcareous. Scattered calcrete nodules and some minor sheet calcrete exposures. Bedrock may be close to surface but not exposed. Interpreted sandplain consisting of medium-grained quartz sand - red-brown, with no evidence of lags, pedolith or saprolith exposures. Some dunes and hummocks. Extensive areas of aeolian sand - fine, medium, red-brown to yellowish. Forms sandplain with low dunes hummocks and some low longitudinal duneforms. Sandplain abuts rises, depositional and lag dominated units - lag composition is variable. Minor sheetflow components. Hummocky rises and low dune sandplain consisting of aeolian fine to medium grained sand, red-brown to buff to yellow, slightly calcareous, sometimes clayey. Some sheetflow modification of sandplain along rise flanks. Bedrock may be close to surface but not exposed. Sandplain consisting of aeolian red-brown slightly calcareous medium fine sands. Scattered calcareous nodules and some minor sheet calcrete exposed. Bedrock may be close to surface but not exposed. Sandplain, fine to medium-grained sand, sometimes silty and calcareous, red-brown to yellowish. Modified in places by sheetwash erosion and deflation effects - best observed at plant bases. Some rare scattered calcrete nodules. $Ae olian \ sand-silty, \ clayey, \ fine \ to \ medium-grained, \ red-brown \ to \ buff, \ sometimes \ yellowish, \ calcareous. \ Variable \ thickness, \ but \ sometimes \ <3m.$ Sandplain consisting of aeolian sand - fine to medium-grained, red-brown to yellowish and sometimes buff coloured calcareous. Sheetflow modified slopes and deflated crests exposing surface lags consisting of >40% calcrete. Silcrete and Fe-stained lithic fragments also within 1m of surface. Colluvial sediments Sheetflow on sandplain on low slopes. Silty clays, to medium to fine sand, red-brown to yellow, calcareous. Lags consist of: Siliceous gravels to 70%; quartz up to 20% and calcrete nodules to 10%.

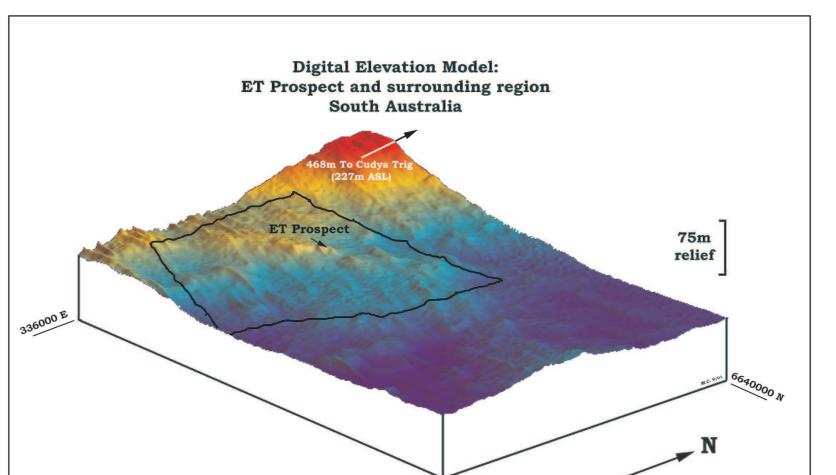
Silty fine sandy clays, silty clayey sands and medium to fine sands - red-brown to buff or yellowish, calcareous. Pebble and rare cobble lags create a maximum of 45% cover, where silcrete and Fe-stained lithic fragments each contribute 40%, quartz gravel and angular pebbles > 15% and calcrete nodules > 5%. Interpreted minor rises, associated with undulating sandplain. Some rises associated with minor surface lags - probably concentrated by deflation. Some sheetflow at crests and flanks and linked to weathered bedrock near to surface. Silty fine sandy clays - red-brown to buff to yellowish, calcareous. Extensive sheetwash gravels on flanks of a low hill. Lag cover to 60% and consisting of silcrete and Fe-stained lithic fragments to 40% each . Silcrete and calcareous nodules 10%, quartz 10% and very rare calcareous Windows of scattered small sheetflow patches over weathered bedrock. Some duricrust may also be present. Aeolian sand - medium-grained, red-brown to yellow, in part calcareous, and generally > 2m thick and contains dispersed calcrete nodules. **IN-SITU REGOLITH**

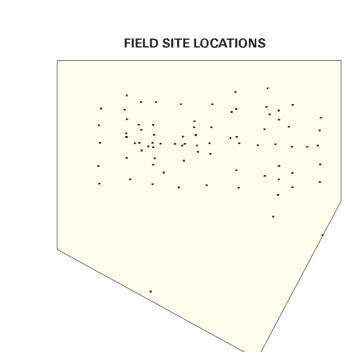
Residual material

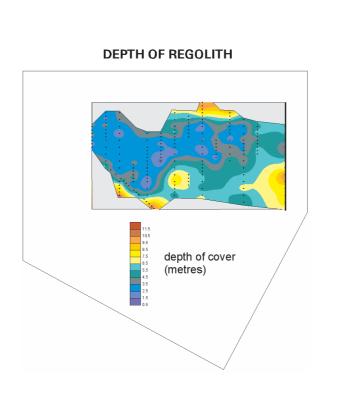
Erosional rise with silty sand cover-thin, patchy, red-brown to yellowish, calcareous. Mostly deflated exposing a 60% lag cover. Lag consists of: 60% silcrete; 20% Fe-stained lithic fragments; 10% calcrete nodules and 10% quartz. Some calcrete impregnated pedolith - saprolite exposures.

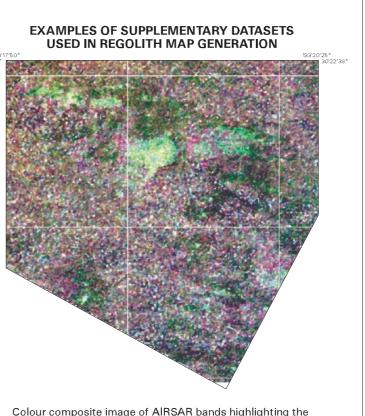




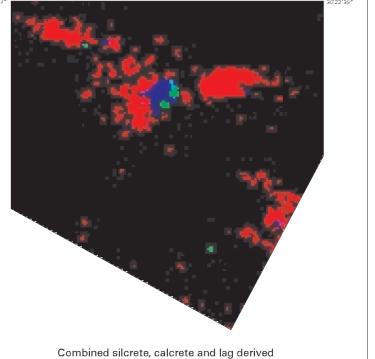




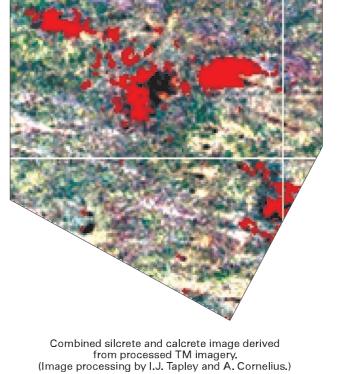


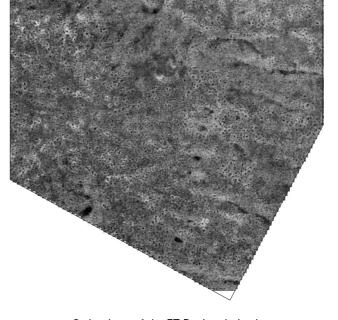


Colour composite image of AIRSAR bands highlighting the location of silcrete gravels in light green hues. (Image processing by I.J. Tapley and A. Cornelius.)

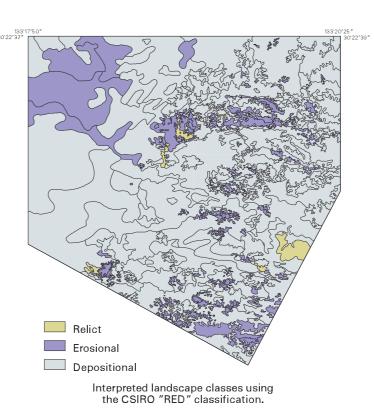


from processed TM imagery. (Image processing by I.J. Tapley and A. Cornelius.)





Orthophoto of the ET Region derived



ctor, CRC LEME. liries should be directed to the: iness Manager - CSIRO Division of Exploration and Mining Private Bag Post Office, WEMBLEY WA 6014 Tel: (08) 9333 6272 Fax: (08) 9333 6146



ET GOLD PROSPECT, GAWLER **CRATON - SOUTH AUSTRALIA**

REGOLITH-LANDFORMS PART OF SHEET 5537-2

PRELIMINARY EDITION VERSION 1 June 2001 WARNING: Colours will fade with

prolonged exposure to light



