

# The Queensland Mineral Prospectivity Atlas

## Introduction

The Queensland Mineral Prospectivity Atlas is a statistical appraisal of the recently collected National Geochemical Survey of Australia (NGSA) data for Queensland.

The Atlas is designed to highlight catchments with anomalous elemental concentrations and to be used as a reference for mineral explorers in Queensland. The NGSA program sampled alluvial or catchment outlet sediments for 311 major river catchments in Queensland at two depth intervals:

- 0-10 cm or Top Outlet Sediments, and
- 60-90 cm or Bottom Outlet Sediments.

Each sample was sieved to <75 and <2000  $\mu\text{m}$  size fractions and analysed for 68 elements using six state-of-the-art analytical methods.

The average sampling density was 1 site per 5500  $\text{km}^2$  and catchments <1000  $\text{km}^2$  were not included in the survey.

## Statistical analysis

- Data were treated as one population and analysed statistically based on catchment-cells.
- Catchments were ranked using four statistical breaks (50, 75 and 90 percentiles and the interpreted anomalous population).
- Anomalous threshold was set at mean plus two standard deviations (~98-100 percentiles).

## Data presentation

- The Atlas presents data for all 68 analysed elements for 311 major river catchments
- Contains 284 maps

## Contact

Joseph Tang  
Joseph.Tang@deedi.qld.gov.au

Dominic Brown  
Dominic.Brown@deedi.qld.gov.au

## Sales

GSQ Sales Centre  
P: +61 7 3035 5306  
E: sales@deedi.qld.gov.au

Reference: TANG E. H. J. & BROWN D. D. 2011. Queensland Mineral Prospectivity Atlas, National Geochemical Survey of Australia. Queensland Geological Record 2011/08.

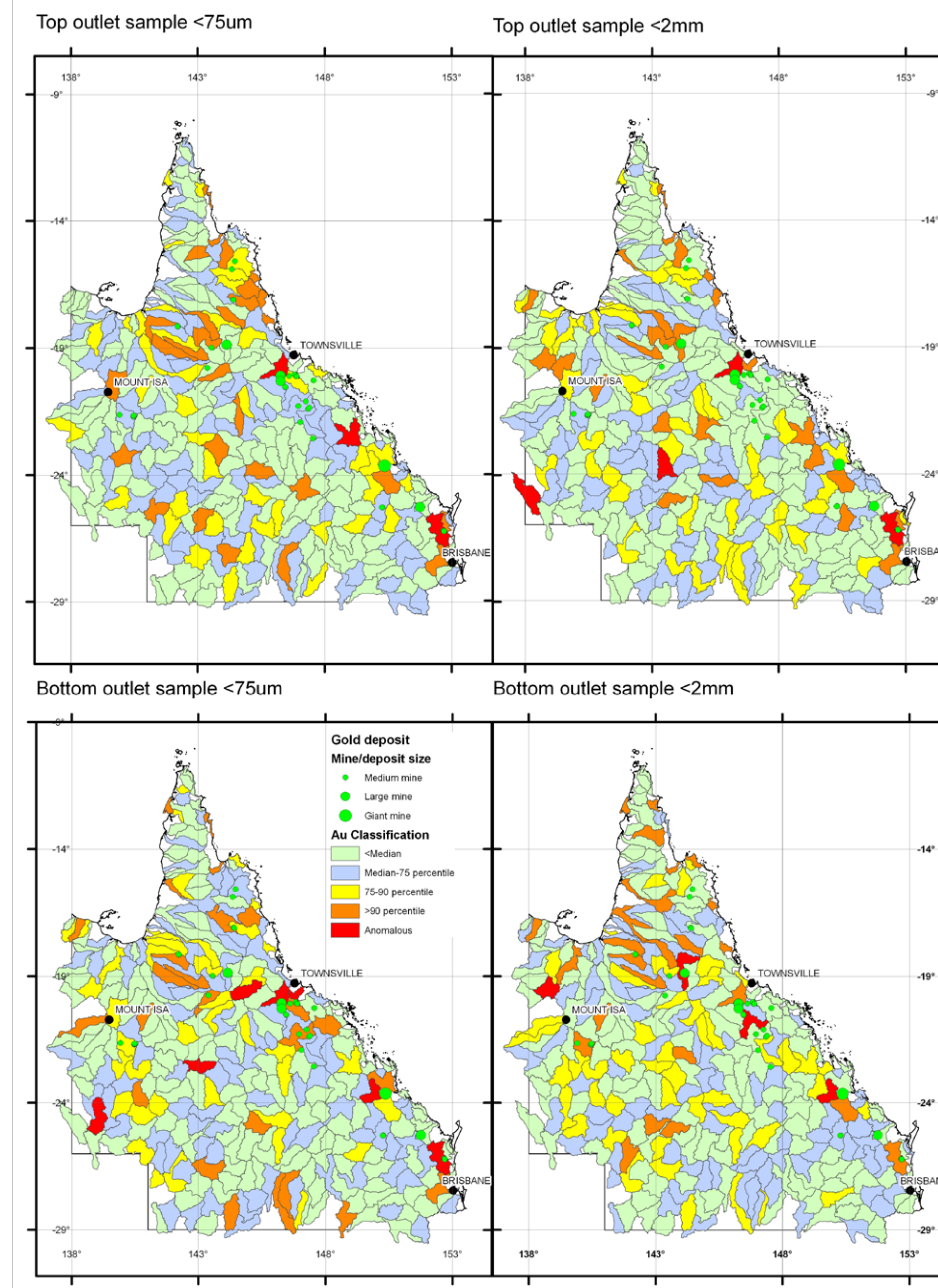


Sampling Top Outlet Sediments

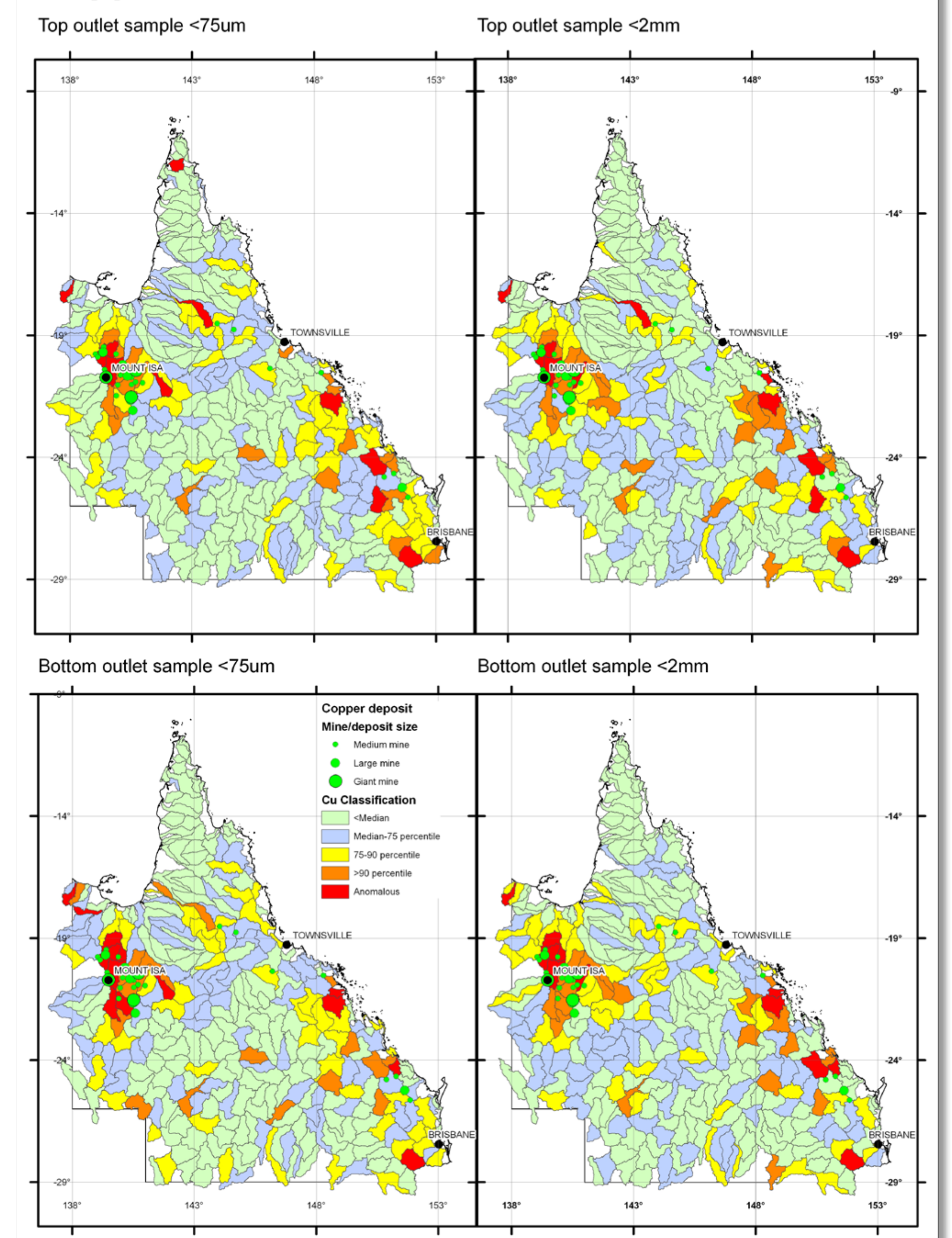


Sampling Bottom Outlet Sediments

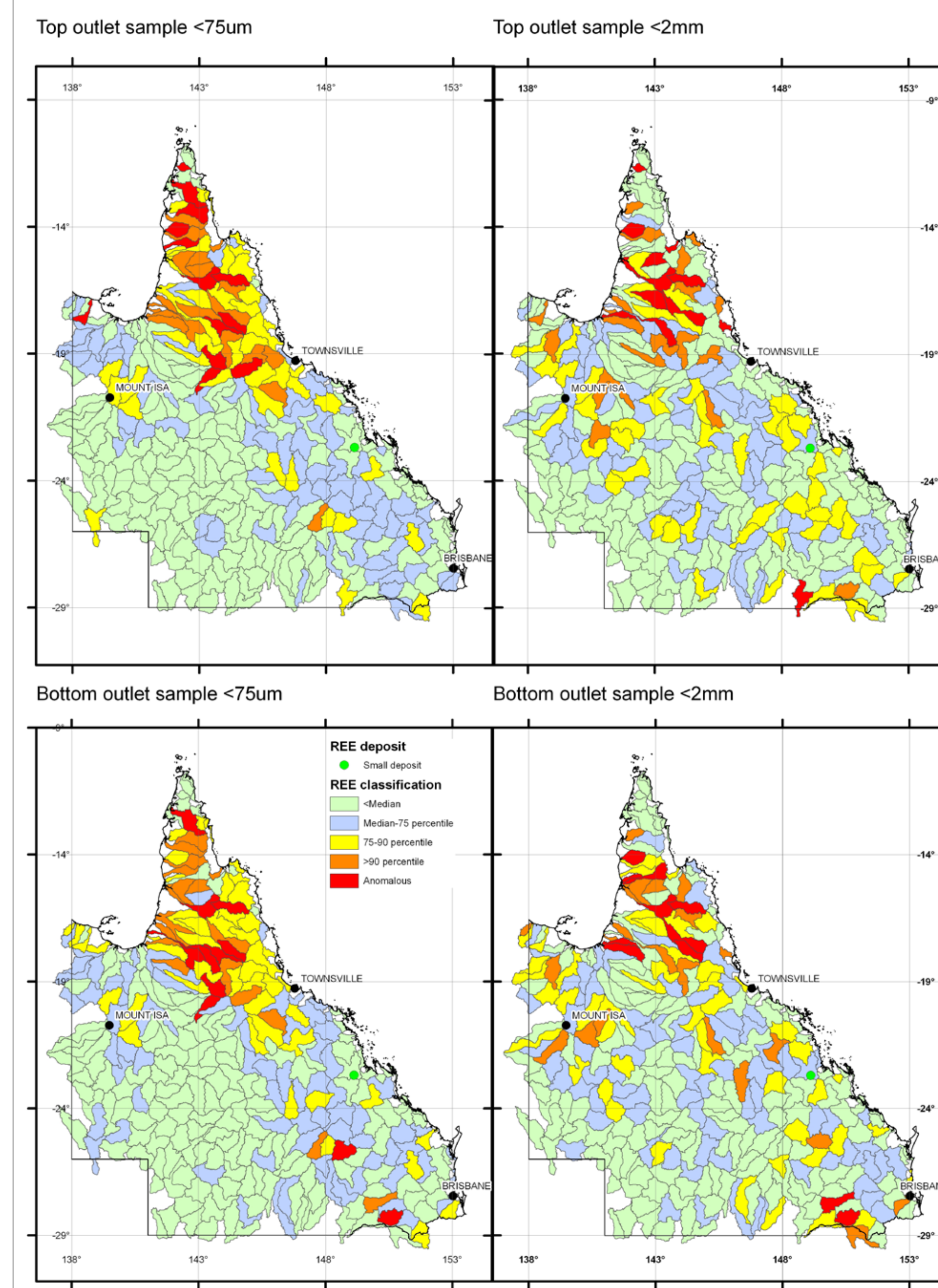
## Gold



## Copper



## Total Rare Earth Elements



## Nickel

